



भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

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नई दिल्ली, शनिवार, सितम्बर 29, 1990 (आश्विन 7, 1912)
NEW DELHI, SATURDAY, SEPTEMBER 29, 1990 (ASVINA 7, 1912)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS AND DESIGNS

Calcutta, the 29th September 1990

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The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

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Todi Estates, III Floor,
Lower Parel (West),
Bombay-400 013.

The States of Gujarat, Maharashtra and Madhya Pradesh and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,
Unit No. 401 to 405, III Floor,
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

Patent Office Branch,
61, Wallajah Road,
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Amindivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office),
"NIZAM PALACE", 2nd M.S.O. Bldg.,
5th, 6th and 7th Floor,
234/4, Acharya Jagdish Bose Road,
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by Bank Draft or Cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय

एकसूच तथा अमिकसूच

कलकत्ता, दिनांक 29 सितम्बर 1990

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी हस्टेट,
तीसरा तल, लोवर परेत (पश्चिम),
बम्बई-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोवा,
दमन तथा दियू एवं दादरा और अगर हवेली।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,
इकाई से 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा
उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,
61, वालाज्हा रोड,
मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र
पाण्डिचेरी, लक्षद्वीप, मिनिर्कोय तथा एमिनिविति द्वीप।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय),
मिजाम पैलेस, द्वितीय बहुतलीय कार्यालय
मकान 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700 020

भारत का अवशेष क्षेत्र

तार पता—“पेटेंटस”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी
आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल
उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क :— शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त
कार्यालय में नियंत्रक को मुग्तान योग्य भनादेश अथवा डाक आदेश या जहां
उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को
मुग्तान योग्य बैंक ड्राफ्ट अथवा बैंक द्वारा की जा सकती है।

CORRIGENDUM

In the Gazette of India, Part-III, Sec. 2 dated 18th August, 1990
under the heading “PATENTS SEALED” delete the number
165731.

CORRIGENDUM

In the Gazette of India, Part-III, Section-2, dated the 15th Septem-
ber, 1990 under the heading “CESSATION OF PATENT” delete the
numbers 151987 and 152241.

CORRIGENDUM

In the Gazette of India, Part-III, Section 2 dated the 22nd Septem-
ber, 1990 under the heading “PATENTS SEALED” read the number
165884 as 164884.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE
234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20.

The dates shown in the crescent brackets are the dates claimed
Under Section 135, of the Patents Act 1970.

The 20th August, 1990

713/Cal/90 Siemens Aktiengesellschaft. Apparatus for measuring a
winding temperature of electric machines.

714/Cal/90 E.I. Du Pont De Nemours and Company. Solid imaging
method utilizing compositions comprising thermally
coalescible materials.

715/Cal/90 Merck Patent Gesellschaft Mit Beschränkter Haftung.
Pigments having an effect of preventing ultraviolet rays
and infrared rays.

716/Cal/90 Armco Inc. Magnesium oxide coating for electrical
steels and the method of coating.

717/Cal/90 Neste Oy. Gas-Sealed material.

718/Cal/90 Neste Oy. Gas-sealed material.

719/Cal/90 Neste Oy. Gas-sealed material.

720/Cal/90 Unique Mobility, Inc. Improved switching circuit
employing electronic devices in series with an inductor
to avoid commutation breakdown and extending the
current range of switching by using IGBT devices in
place of mosfets.

721/Cal/90 Sri Bimal Chandra Bhattacharyya and Parthasarathi
Bhattacharyya. Flatbed multistage bioreactor for plant
tissue culture system.

The 22nd August, 1990

722/Cal/90 Westinghouse Electric Corporation. Improvements in
or relating to adjustable circuit breaker with draw out
interlock.

- 723/Cal/90 Westinghouse Electric Corporation. Improvements in or relating to deaerator heat exchanger for combined cycle power plant.
- 724/Cal/90 Permx B.V. A method and device for aseptically propagating cells or tissues.
- 725/Cal/90 General Electric Company. Single-crystal diamond of very high thermal conductivity.
- 726/Cal/90 E.I Du Pont De Nemours and Company. A process for preparing polyethylene plexifilamentary film-fibril strands.
- 727/Cal/90 E.I. Du Pont De Nemours and Company. Method of warp knitting.
- 728/Cal/90 Krone Aktiengesellschaft. Connector bank for telecommunication systems.
- 729/Cal/90 Krone Aktiengesellschaft. Wire connector for cable wires in particular of telecommunication cables.
- 730/Cal/90 Ashis Kumar Das. Random chemical synthesis.
- 731/Cal/90 Irwin Fox and Alvin Samuels. Disposable oxide carrier for scavenging hydrogen sulfide.

The 23rd August, 1990

- 732/Cal/90 Massey-Ferguson Services N.V. Gear change mechanism.
(Convention dated September 23, 1989; No. 89215412; United Kingdom)

- 733/Cal/90 Licentia Patent-Verwaltungs-GmbH. Automatic circuit-breaker in particular line overcurrent cut-off.

The 24th August, 1990

- 734/Cal/90 Institut National De La Recherche Agronomique (Intra), Institut Pasteur and Commissariat AL'energie Atomique (Cea). A process for preparing a molecular probe for DNA specific for the male genome of ruminants.
[Divisional dated 27th February, 1987]

- 735/Cal/90 Ethicon, Inc. Thermal treatment of thermoplastic filaments.

- 736/Cal/90 General Electric Company. Third order sigma delta oversampled analog-to-digital converter network with low component sensitivity.

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, THIRD FLOOR, SUN MILL COMPOUND, LOWER PAREL (W), BOMBAY-13.

The 16th July, 1990

- 182/Bom/90 Govind Sadashiv Bapat. An invention for BUL (Bapat Universal Lorry).
- 183/Bom/90 Hindustan Lever Ltd. Particulate Detergent composition additive.

The 20th July, 1990

- 184/Bom/90 Industrial Progress, Inc. Process for making structural Aggregate pigments.

- 185/Bom/90 Industrial Progress, Inc. Functional Complex Microgels with Rapid formation kinetics.

- 186/Bom/90 Industrial Progress, Inc. Process for making structural Aggregate pigments.

- 187/Bom/90 Hindustan Lever Ltd., Emulsion.

The 23th July, 1990

- 188/Bom/90 Hareesh Chhotlal Mehta. Octopack.

- 189/Bom/90 Hareesh Chhotlal Mehta. Robopack.

The 24th July, 1990

- 190/Bom/90 Kambyan Valapil Radhakrishnan Nair. Process of manufacturing impact extrusion slugs reducing process wastage substantially.

- 191/Bom/90 Vasant Ramchandra Birmal. Improved storage type solar water heater.

The 27th July, 1990

- 192/Bom/90 Bajaj Auto Limited. A two stroke internal combustion engine.

The 30th July 1990

- 193/Bom/90 Hoechst India Limited. A process for the preparation of pharmacologically active novel acyl labdane derivatives.

The 31st July 1990

- 194/Bom/90 Madhav V. Deodhar. Improved flour mill.

- 195/Bom/90 Mugdha M. Parkhi. Sink and wash basin cleaning compound.

- 196/Bom/90 V.I.P. Industries Ltd. Improvements in or relating to the mechanism of sideward movement of the side core in the mould for moulding process.

The 3rd August 1990

- 197/Bom/90 Mahendra D. Shah. An improved candle/holder pot.

The 6th August 1990

- 198/Bom/90 Hoechst India Limited. A process for the preparation of novel polyoxygenated labdane derivatives having pharmacological properties.

- 199/Bom/90 Ghanshyam S. Tasgaonkar. Domestic refrigerator.

- 200/Bom/90 Klaas Equipment (P) Limited. A device for marking.

The 7th August 1990

- 201/Bom/90 Hindustan Lever Limited. Hair setting composition. [8th August 1989; Great Britain].

- 202/Bom/90 Hindustan Lever Limited. Hair treatment composition [8th August 1989; Great Britain].

- 203/Bom/90 Hindustan Lever Limited. Detergent composition [10th August 1989; Great Britain].

- 204/Bom/90 Hindustan Lever Limited. Detergent composition [10th August 1989; Great Britain].

- 205/Bom/90 Panchal M. Saburbhai. An improved process for distillation and deodorisation of fats and fatty acids.

**APPLICATIONS FOR PATENTS FILED AT THE PATENT
OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002.**

The 16th July 1990

- 565/Mas/90 Deccan Motor Cycle & Scooter Garage. Three wheeled luna for handicapped.
- 566/Mas/90 Rockwell International Corporation. Electrical drive for a segmented transducer.
- 567/Mas/90 Shane Robert McGill. Dispensing Apparatus for frozen product. (July 20, 1989; Great Britain)
- 568/Mas/90 Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Process for the production of a yarn from fiber material.

The 17th July, 1990

- 569/Mas/90 Umesh Korde. A wave powered laser communication system.
- 570/Mas/90 Maschinenfabrik Rieter AG. Method for the optimised preparation of textile fibres from different origins.
- 571/Mas/90 Zheng Yue & Li Lan. High-efficiency gear transmission.
- 572/Mas/90 Atochem. A process for the preparation of 1, 1-BIS [4-Chlorophenyl]-2, 2, 2-Trichloroethanol

The 18th July, 1990

- 573/Mas/90 (G.V.Natarajan) Guddam Venkatachalapathy Natarajan. The Balanced Vehicle.
- 574/Mas/90 VEG-Gasinstituut N.V. and Comprimo B.V. Catalyst for the selective oxidation of sulphur compounds to elemental sulphur, process for preparing such a catalyst and method for the selective oxidation of sulphur compounds to elemental sulphur.
- 575/Mas/90 Merlin Gerin. Measuring device of the rms value of a singla, notably for current measurement in a solid-state trip device.
- 576/Mas/90 Henkel Corporation. Continuous process for preparation of aqueous dispersions of metal soaps.

The 19th July, 1990

- 577/Mas/90 TI Diamond Chain Limited. A device for orienting bushes during chain assembly.
- 578/Mas/90 Laboratories Delagrang. New oral pharmaceutical dosage form improving bioavailability.

The 23rd July, 1990

- 579/Mas/90 International Instruments Limited. AN ANALYSER System for a Microprocessor based electronic tachograph recording and indicating system.
- 580/Mas/90 International Instruments Limited. a Microprocessor based electronic tachograph recording and indicating system.
- 581/Mas/90 Baba Madhava Rao. Baba Unique Bolts.
- 582/Mas/90 V. Ganeshan. Two Face Transparent Watch.
- 583/Mas/90 GEC—Marconi Limited. Highspeed CMOS Differential Interface Circuits. (3rd August 1989; UK)

The 24th July, 1990

- 584/Mas/90 International Business Machines Corporation. Initial bios load for a personal computer system.
- 585/Mas/90 International Business Machines Corporation. An apparatus and method for decreasing the memory requirements for bios in a personal computer system.
- 586/Mas/90 International Business Machines Corporation. An apparatus and method for preventing unauthorized access to bios in a personal computer.
- 587/Mas/90 International Business Machines Corporation. Programmable interrupt controller.
- 588/Mas/90 International Business Machines Corporation. Apparatus and method for a synchronously delivering control elements with a pipe interface.
- 589/Mas/90 International Business Machines Corporation. Personal computer processor card interconnect system.
- 590/Mas/90 AstroTurf Industries, Inc.. Drainable artificial turf assembly.
- 591/Mas/90 Keith Herd Youne McMahon. Syringes.

The 25th July, 1990

- 592/Mas/90 Dr. Jose Thaikettil. A valve cap.
- 593/Mas/90 Dr. Jose Thaikettil. A vacuum Flask.
- 594/Mas/90 Dr. Jose Thaikettil. Valve Cap.
- 595/Mas/90 Compagnie generale des etablissements Michelin—Michelin & CIE. Method and device for the heat treatment of at least one metal wire with heat-transfer plates.
- 596/Mas/90 ONX, INC. prosthetic Heart valve.
- 597/Mas/90 Rosemount inc. pressure transmitter with flame isolating plug.
- 598/Mas/90 Asea Brown Boveri Ltd. Pressure wave machine.

The 26th July, 1990

- 599/Mas/90 Loyal machine Limited. An anticrack motion device.
- 600/Mas/90 Loyal machine Limited. An anticrack motion device.
- 601/Mas/90 Chevron Research and Technology Company. Method and apparatus for an on-stream particle replacement system for countercurrent contact of a gas and liquid feed stream with a packed bed.
- 602/Mas/90 Minnesota Mining and Manufacturing Company. Device for withdrawing flowable filling material through a flexible wall of a bag.
- 603/Mas/90 Rhone-Poulenc Chimie. Process for the treatment of hides, and hides obtained.
- 604/Mas/90 Rhone-Poulenc Chimie. Biologically stable untanned hides in wet form.
- 605/Mas/90 Enichem Synthesis S.p.A. Liquid composition polymerizable into organic glasses of high refractive index.
- 606/Mas/90 Usinor Sacilor. Process and device for the direct continuous casting of thin metallic products.

The 27th July, 1990

- 607/Mas/90 Sumitomo Chemical Company Limited. Process for preparing N-Alkyl-Substituted Aminophenols.
- 608/Mas/90 Owens-Illinois Plastic Products Inc. Polystyrene foam sheet manufacture.
- 609/Mas/90 Hamlin Transmission Corporation. Self-Positioning Belt Tensioner.
- 610/Mas/90 Hamlin Transmission Corporation. Spring Assembly.
- 611/Mas/90 Institut Francais Du Petrole. New catalytic composition and its use in oligomerising monoolefins.
- 612/Mas/90 Roe Lee Paper Chemicals Company Limited. Treatment of Fibrous Materials. (29th July, 1989; UK)
- 613/Mas/90 Fletcher Smith Limited. Improvements in or relating to Sugar Production Apparatus. (28th July; UK).

The 30th July, 1990

- 614/Mas/90 Isaac Koshy. Natural air-conditioning and a device therefor.
- 615/Mas/90 Nadella. Prestressed σ radial bearing and its application particularly automobile suspensions.
- 616/Mas/90 Davy McKEE (London) Limited. A hydrogenation process.
- 617/Mas/90 Davy McKEE (London) Limited. A process for the recovery of tetrahydrofuran from mixtures containing tetrahydrofuran, one or more lower alkanols and water.
- 618/Mas/90 Shell Internationale Research Maatschappij B.V. Container for elastic solid material.
- 619/Mas/90 The Dow Chemical Company. Constrained geometry addition polymerization catalysts, processes for their preparation, precursors therefor, method of use, and novel polymers formed therewith.
- 620/Mas/90 Rhone-Poulenc Films. Composite polyester films and their use as protective layers for photopolymer plates.
- 621/Mas/90 The Dow Chemical Company. A process for producing ethylene oxide by catalytic selective oxidation. (Divisional to Patent Application No. 856/Mas/86)

The 31st July, 1990

- 622/Mas/90 Statefocus Limited. Strainer.
- 623/Mas/90 Inventio AG. Device for the ventilation of fast-moving lift cages.
- 624/Mas/90 Inventio AG. Door seal against sound in lift cages.
- 625/Mas/90 Charbonnages de France. Self-supporting thin film filament type sensor, its method of fabrication and its applications in gas detection and gas chromatography.
- 626/Mas/90 The South India Textile Research Association. An enclosed humidified creel system for ring frames to improve upon the quality of yarn and spinning performance.
- 627/Mas/90 American Telephone and Telegraph Company. Methods of and systems for optical fiber sensing. (August 24, 1989; Canada.)

The 1st August, 1990

- 628/Mas/90 Air Products and Chemicals, Inc. Preparation of urethane prepolymers having low levels of residual toluene diisocyanate.
- 629/Mas/90 Varada Prashant Rao. A Traction device.

The 6th August, 1990

- 630/Mas/90 Anson Limited. Pipeline coupling. (August 8, 1989; United Kingdom)
- 631/Mas/90 Sandoz Ltd. Improvements in or relating to organic compounds. (August 7, 1989; United Kingdom)

The 7th August, 1990

- 632/Mas/90 Maschinenfabrik Rieter AG. A self-powered spindle.
- 633/Mas/90 Cabot Corporation. Gravimetric Determination of The Iodine Number of Carbon Black.
- 634/Mas/90 M A Padamses. A vacuum flask compatible to microwave heating

The 8th August, 1990

- 635/Mas/90 Nere Technologies Ltd. Programmable safety electrical socket controller.

The 9th August, 1990

- 636/Mas/90 Southern Enterprises. Blower for a mechanical horn.
- 637/Mas/90 Comalco Limited. Al-Si alloys and method of casting. (August 9, 1989; Australia)
- 638/Mas/90 Paliac Aktiengesellschaft. Aiming system

The 10th August, 1990

- 639/Mas/90 Techumseh Products Company. Single piece gasket valve plate assembly.
- 640/Mas/90 Rieter Machine Works Ltd. Method and device for the fine cleaning of textile fibres.

The 13th August, 1990

- 641/Mas/90 S. Prakasam. A three dimensional model for framing pictures making in paper board.
- 642/Mas/90 Cogent Limited. Detection of Explosives. (August 14, 1989; Great Britain)
- 643/Mas/90 Morningfield Limited. Cleaning vehicles. (August 31, 1985; United Kingdom). [Divisional to Patent No. 693/Mas/86].

The 16th August, 1990

- 644/Mas/90 Muthuswamy Srirangarayan. An air cooler.
- 645/Mas/90 The Regents of the University of California. Synthetic compounds that enhance cell binding.
- 646/Mas/90 Societe des Produits Nestle S.A. Soya sauce.
- 647/Mas/90 Societe des Produits Nestle S.A. Flavouring agent.
- 648/Mas/90 AMDL, INC. An in vitro method and probe for detecting the presence of the ring shaped particle and malignancy in humans and animals.

The 17th August, 1990

- 649/Mas/90 Saju (Chacko Sebastian). Automatic cassette control system.
- 650/Mas/90 Veera Avinash. Heater cum bed lamp for heating the mats to ward off mosquitoes.
- 651/Mas/90 Mars, Incorporated. Method and apparatus for preventing pay telephone fraud and reducing handset vandalism.
- 652/Mas/90 Mars, Incorporated. Method and apparatus for retrofitting a standard coin operated telephone employing a carbon microphone with a line powered electronic controller.
- 653/Mas/90 Mars, Incorporated. Method and apparatus for keyboard adaptation to a low power controller in a coin operated telephone.
- 654/Mas/90 Usinor Sacilor. Device for the continuous casting of thin metal products between rolls.
- 655/Mas/90 Oy Airtunnel Ltd. Procedure and apparatus for the purification of air, flue gases or equivalent.
- 656/Mas/90 Asea Brown Boveri Ltd. Direct-current electric-arc furnace.
- 657/Mas/90 V.M. Rao. A device for improving the flow characteristics of particulate material, fluids, electricity, electric and electro-magnetic waves.

ALTERATION

- 167244 (267/Mas/86) Anti-dated October 15, 1982.
- 167260 (976/Mas/86) Anti-dated April 25, 1984.
- 93 (56/Mas/88) Anti-dated January 10, 1985.
- 167289 (325/Mas/88) Anti-dated December 16, 1986.

OPPOSITION PROCEEDINGS

The Opposition entered by M/s. Widia (India) Limited to the grant of a Patent on Application No. 153439 made by M/s. Sandvik Asia Limited as notified in the Gazette of India, Part III, Section 2 dated 02nd February, 1985 has been dismissed and ordered that a Patent is to be sealed.

An Opposition has been entered by M/s Orissa Cement Limited to grant of a patent on application No. 165853 dated 01st January, 1986 made by Council of Scientific & Industrial Research.

CLAIMS UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

Claim made by Schlumberger Industries, under Section 20(1) of the Patents Act, 1970, to proceed the Application for patent No. 166020 in their name has been allowed.

Claim made by Siemens Aktiengesellschaft under Section 20(1) of the Patents Act, 1970 to proceed the application for patent No. 161468 in their name has been allowed.

Claim made by Siemens Aktiengesellschaft to proceed the application for Patent No. 161926 in their name has been allowed.

Claim made by Siemens Aktiengesellschaft under Section 20(1) of the Patents Act, 1970 to proceed the application for patent No. 162683 in their name has been allowed.

Claim made by Siemens Aktiengesellschaft under Section 20(1) of the Patents Act, 1970 to proceed the application for patent No. 161813 in their name has been allowed.

PATENTS SEALED

148589 158535 161468 161813 161926 162308 162683 165476 165501
165531 165582 165884 165867 165868 165945 165946 165950 165985

CAL—16
MAS—Nil
DEL—2
BOM—Nil

AMENDMENT PROCEEDINGS UNDER SECTION 57

The amendment proposed by Pidilite Industries Limited, of Regent Chambers, Nariman Point, Bombay-400 021, Maharashtra, India, in respect of Patent No. 163037 as advertised in the Gazette of India, Part III, Section 2 dated 3rd June, 1989 has been allowed.

The amendment proposed by Santrade Limited of Apenquai 12, 6002 Luzern, Switzerland, in respect of Patent application No. 232/BOM/1987 as advertised in Part III, Section 2 of the Gazette of India dated 10-3-1990 has been allowed.

Notice is hereby given that *FURUKAWA DENCHI KABUSHIKI KAISHA* (also known as the *Furukawa Battery Co. Ltd.*, No. 2-16-1, Hoshikawa, Hodogaya-ku, Yokohama, Kanagawa-ken, Japan and *Honda Giken Kogyo Kabushiki Kaisha* (also known as *Honda Motor Co. Ltd.*, Japan) have made an application under Section 57 of the Patents Act, 1970, for amendment of application and specification of their application for Patent No. 166952 for *Storage Battery*.

The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600 002 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within 3 months from the date of the Notification at the Patent Office, Madras-2. If the Written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said Notice.

The amendments proposed by Siemens Aktiengesellschaft West Germany in respect of application for Patent No. 152031 as advertised in Part III Section 2 of the Gazette of India dated the 13th January, 1990, have been allowed.

The amendments proposed by British Railways Board, London in respect of Patent No. 157611 as advertised in Part III Section 2 of the Gazette of India dated the 13th Jan. 1990, have been allowed.

The amendments proposed by Siemens Aktiengesellschaft West Germany in respect of application for Patent No. 152031 as advertised in Part III Section 2 of the Gazette of India dated the 13th January, 1990, have been allowed.

The amendments proposed by British Railways Board, London in respect of Patent No. 157611 as advertised in Part III Section 2 of the Gazette of India dated the 13th Jan. 1990, have been allowed.

RENEWAL FEES PAID

146964	146966	147089	147098	147938	148551	148580	148974
149315	149352	149583	149615	149716	149771	149837	150204
150211	150541	150612	150671	150673	151163	151427	151504
151505	151548	151711	151862	151935	151987	152000	152034
152035	152280	152722	152939	152956	153124	153125	153144
153438	153491	153691	153881	154055	154117	154710	154779
154780	154880	154912	154913	155231	155264	155285	155457
155984	156085	156250	156339	156389	156570	156572	156573
156577	156579	156604	156709	156711	156712	156736	156751
156862	156863	156939	156957	157077	157144	157146	157187
157188	157189	157430	157611	157649	157985	158025	158153
158204	158230	158406	158598	158765	159101	159192	159745
160030	160031	160123	160125	160232	160365	160374	160379
160380	160729	160731	160732	160794	160795	160918	160920
160954	161041	161092	161125	161195	161363	161435	161437
161438	161450	161533	161537	161577	161772	161883	161884
161885	161957	161998	162036	162047	162051	162272	162416
162417	162418	162473	162556	162601	162636	162745	162907
163001	163034	163256	163257	163320	163495	163528	163663
163689	163724	164070	164238	164290	164666	164746	164873
164874	164928	164938	164939	164954	165057	165066	165078
165079	165099	165103	165104	165105	165234	165233	165240
165242	165267	165289	165354	165395	165397	165492	165495
165498	165496	165625					

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 164173 granted to Sanden Corporation for an invention relating to "a shaft seal element in combination with a rotary shaft of a compressor".

The patent ceased on the 2nd April, 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 7th July, 1990.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 29th November, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 163835 granted to Sanden Corporation for an invention relating to "scroll type fluid compressor with high strength sealing element".

The patent ceased on the 2nd April, 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 7th July, 1990.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 29th November, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 162101 granted to AJO-Stahlbau GmbH & Co. KG. for an invention relating to "apparatus for the draining of granular material, particularly granulated blast furnace slag".

The patent ceased on the 28th June, 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 7th July, 1990.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 29th November, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 161547 granted to Suresh Kumar Chawla for an invention relating to "a power generation system".

The patent ceased on the 8th May, 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 7th July, 1990.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 29th November, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 158315 granted to Mitsui Toatsu Chemicals Incorporated and Toyo Engineering Corporation for an invention relating to "a synergistic solvent composition for washing high molecular substances stuck on the interior of a production apparatus or molding apparatus".

The patent ceased on the 15th June, 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 7th July, 1990.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 29th November, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 149059 granted to Ahmedabad Manufacturing and Calico Printing Company Limited for an invention relating to "a method for obtaining hydrogen gas stream depleted of all or most of the mercury content from the effluent gas of a caustic chlorine plant".

The patent ceased on the 19th May, 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 7th July, 1990.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 29th November, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 164552 granted to Kumaravale Thangaraj for an invention relating to "a computerised ticketing machine".

The patent ceased on the 9th April, 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 7th July, 1990.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 29th November, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 156192 granted to The Ahmedabad Manufacturing and Calico printing Company Ltd. for an invention relating to "a dispensing device".

The patent ceased on the 22nd May, 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 7th July, 1990.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 29th November, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. granted to SKF Textilmaschinen-Komponenten GmbH for an invention relating to "spinning or twisting element with individual drive".

The patent ceased on the 21st June, 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 7th July, 1990.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller

of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 29th November, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 162271 granted to The Director, Central Sericultural Research & Training Institute for an invention relating to "a silk reeling charkha for reeling silk".

The patent ceased on the 19th May, 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 7th July, 1990.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 29th November, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अप्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्य को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के सदस्य में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूचीगत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियाँ, भारत सरकार भुक्त डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होंगे। प्रत्येक विनिर्देश का मूल्य 2/- रु० है (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु नाम पत्र के साथ निम्नलिखित सूची में यथाप्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियाँ, यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु० है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl.: 24-E [GROUP-LV].
Int. Cl.: B 60 T 1/06.

167241

AUTOMATIC ADJUSTER FOR A VEHICLE BRAKE.

Applicant: LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM 19, ENGLAND.

Inventors: (1) BRIAN INGRAM, (2) HUGH GRENVILLE MARGETTS & (3) MICHAEL JOHN ENGLAND.

Application No. 203/Mas/86 filed on March 20, 1986.

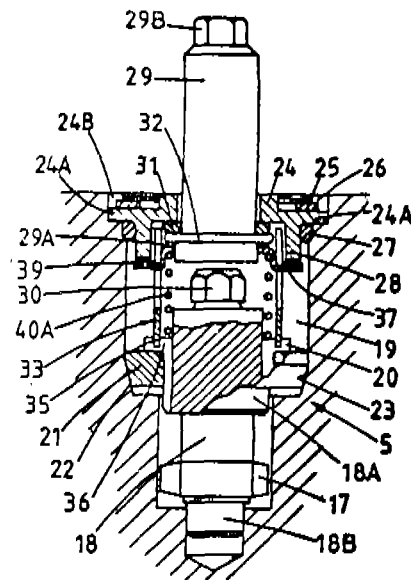
Convention date: 21st March, 1985. (No. 8507299; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

17 Claims

An automatic adjuster comprising a strut having two parts between which there is a non-reversible screw threaded connection 2—G-257 GI/90.

permitting the effective length of the strut to be increased by relative rotation between the parts under the influence of an adjuster device which incorporates clutch means for controlling said relative rotation in response to the occurrence of excessive clearance between braking surfaces, one of the adjuster parts being coupled by unidirectional means to a relatively fixed part of the adjuster to resist rotation of said one adjuster part in a deadjusting direction but to permit rotation thereof in the adjusting direction.



Compl. Specn. 16 Pages

Drg.s. 4 Sheets.

Ind. Cl.: 12-D & 146-E [GROUPS-XXXIII (2) & XXXVIII (2)].

167242

Int. Cl.: C 21 D 1/00 & H 01 L 35/00

APPARATUS FOR OBTAINING THE TEMPERATURE OF AN OBJECT SUCH AS A RAILWAY WHEEL BEING HEAT TREATED.

Applicant: AMSTED INDUSTRIES INC./CORPORATED, OF 3700 PRUDENTIAL PLAZA, CHICAGO, ILLINOIS 60601, U.S.A., U.S. COMPANY.

Inventor: LYMAN WOOD JEFFREYS.

Application No. 231/Mas/86 filed on March 31, 1986.

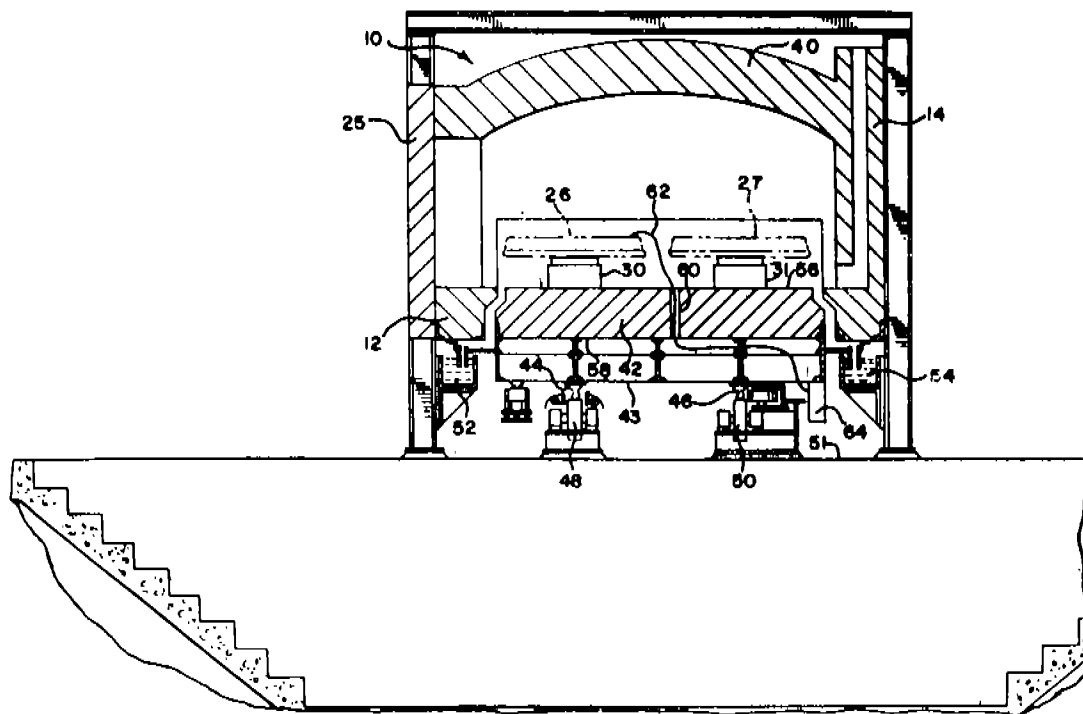
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims

Apparatus for obtaining the temperature of an object such as a railway wheel being heat treated comprising.

a ring shaped hearth rotatable within a generally circular heat treating furnace, said hearth forming a floor in said furnace,

an opening in said hearth, a thermocouple wire passing through said opening such that one end of said wire is attached to an object being heat treated in said furnace and the other end of said wire extends radially outwardly to an outer edge of said hearth, and a temperature display device connected to the other end of said wire at the outer edge of said hearth to provide a display of the temperature of the object in said furnace.



Compl. specn. 9 pages

Drgs. 2 sheets

Ind. Cl. : 19 C & 129 B [GROUPS-LXIV (1) & XXXV] 167243
 Int. Cl.⁴ : B 65 G 33/14.

SCREW FOR SINGLE-SCREW EXTRUDER.

Applicant: VISH CHIMIKO-TEKNOLOGITCHESKI
 INSTITUT, OF 8 BLVD. KLIMENT OHRIDSKI, SOFIA,
 BULGARIA, AN INSTITUTE ORGANISED UNDER THE LAWS
 OF BULGARIA.

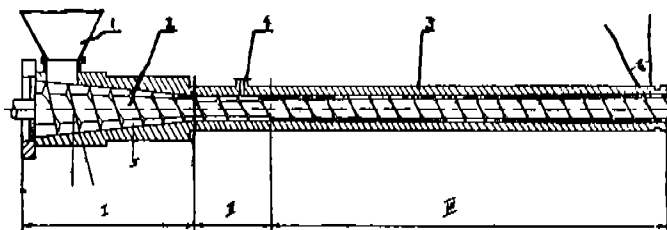
Inventors : (1) MILTCHO ANGELOV NATOV (2) STEFANKA
 VASSILEVA VASSILEVA.

Application No. 250/Mas/86 filed on April 4, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
 Rules, 1972), Patent Office, Madras Branch.

4 Claims

A screw for single-screw extruder, comprising a conical feed zone,
 a decompression zone and a compression zone, wherein the compression
 ratio in the feed zone I of the screw (2) is higher than 4 at an angle
 of lead of screw flight ϕ_1 of from 15 to 23 degrees, while the decompression
 in the decompression zone II is of from 1.5 to 2.0, and the compression
 ratio in the compression zone III is lower than 4.5 at an angle
 of lead of screw flight ϕ_2 of the screw (2) of from ϕ 25 to 32 degrees.



Compl. Specn. 8 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 108 C₃ [GROUP-XXXIII(5)].
 Int. Cl.⁴ : C 21 D 1/613.

167244

AN IMPROVEMENT IN A METHOD OF MANUFACTURING A CORROSION RESISTANT NON-ALLOY STEEL COMPONENT.

Applicant: LUCAS INDUSTRIES PUBLIC LIMITED COM-
 PANY, OF GREAT KING STREET, BIRMINGHAM 19,
 ENGLAND, A BRITISH COMPANY.

Inventors : (1) CYRIL DAWES, (2) JOHN DAVID SMITH.

Application No. 267/Mas/86 filed on April 10, 1986.

Divisional to Patent No. 157874 (1211/Cal/82) (Ante-dated to
 October 15, 1982).

Convention date : 15th October, 1981; Great Britain.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
 Rules, 1972), Patent Office, Madras Branch.

7 Claims

In a method of manufacturing a corrosion resistant non-alloy
 steel component wherein the improvement comprises the steps of
 heat treating at a temperature of from 550 to 720°C a non-alloy steel
 component in a nitriding gaseous atmosphere to produce an epsilon
 iron nitride surface layer thereon; cooling the component; me-
 chanically surface finishing the component; and oxidising the sur-
 face finished components to provide an oxide-rich surface layer.

Compl. Specn. 28 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 118 A [GROUP-XLV(2)].
Int. Cl. : B 62 D 55/20

167245

Application No. 288/Mas/86 filed on April 17, 1986.

A METHOD OF MANUFACTURING A TRACK JOINT WITH A CONTROLLED RUNNING CLEARANCE BETWEEN OPPOSING THRUST SURFACES OF THE TRACK JOINT.

Applicant : CATERPILLAR TRACTOR CO., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF CALIFORNIA, U.S.A., OF 100 N. E., ADAMS STREET, PEORIA, ILLINOIS 61629-6490, U.S.A.

Inventors : (1) RICHARD EDWARD LIVESAY, (2) CHARLES EDWARD GRAWLEY.

Application No. 271/Mas/86 filed on April 11, 1986.

Convention date : 482, 555 Filed May 28, 1985, Canada.

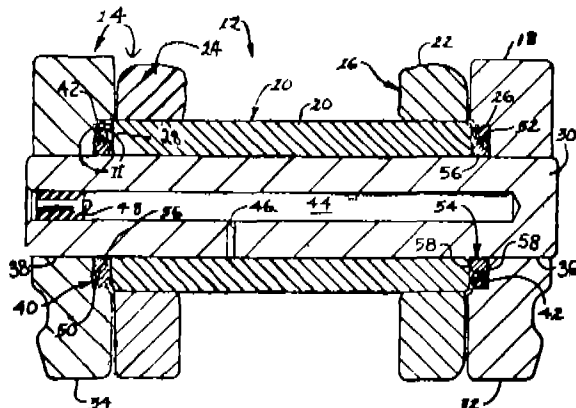
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

13 Claims

A method of manufacturing a track joint with a controlled running clearance between opposing thrust surfaces of the track joint, the joint having first and second members, comprising the steps of :

applying a controlled interstice producing membrane to at least one of the thrust surfaces of the thrust rings of the joint, said membrane having a thickness of between .001 to .010 inches and being of a material which is readily pulverizable by grinding; and

assembling said joint by exerting an axial compressive force sufficient to compressively load said membrane between said first and second members.



Compl. Specn. 16 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 195 B [GROUP-XXIX (3)].
Int. Cl. : F 15 B 13/044 F 16 K 7/07.

167246

A PNEUMATIC CYCLE TIMING DEVICE FOR USING WITH APPLIANCES SUCH AS A COOKER OR A HEATER.

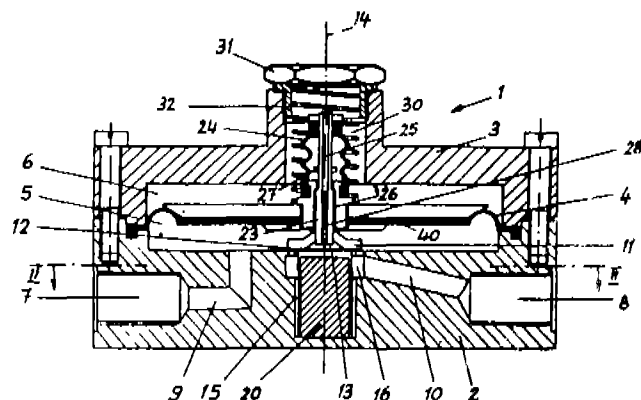
Applicant : RUHRGAS AKTIENGESellschaft, A WEST GERMAN JOINT STOCK COMPANY OF HUTTROPSTRASSE 60, D-4300 ESSEN 1, WEST GERMANY.

Inventor : WILHELM KORSMEIER.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

14 Claims

A pneumatic cycle timing device for using with appliances such as a cooker or a heater, said timing device comprising a body providing a space and incorporating a gas inlet and a gas outlet, a valve arranged in a passage between said inlet and said outlet, said valve having an obturator for blocking said passage which in the blocking position is retained on the seat of said valve by two magnetically cooperating members and for opening the passage it is lifted off said seat in a direction of obturator movement and a diaphragm which is adapted to be deflected in said direction of obturator movement and separates said space in said body into first and second chambers, said first chamber communicating with said gas inlet and said second chamber communicating with said gas outlet via a pressure equalization duct, wherein one of said two magnetically cooperating members is permanently mounted on said stationary valve seat and the other one of said two magnetically cooperating members is mounted for movement with said obturator, said pressure equalization duct extending from the obturator into said chamber, a carrier means for lifting said obturator off said valve seat is coupled with said diaphragm in a manner causing said obturator to be lifted off said valve seat only following a predetermined diaphragm deflection and a spring acting between said diaphragm and said obturator, said spring being loaded by an initial diaphragm deflection and being unloaded as said obturator is being lifted off said valve seat, thereby suddenly accelerating the lifting movement of said obturator.



Compl. Specn. 15 Pages.

Drg. 1 Sheet.

Ind. Cl. : 39-L [Group-III]
Int. Cl. : C 01 F 7/06

167247

AN IMPROVED PROCESS FOR THE PRODUCTION OF ALUMINA FROM GIBBSITE-BEARING BAUXITE OF LOW REACTIVE SILICA CONTENT.

Applicant : ALUMINIUM PECHINEY, OF 23, RUE BALZAC, 75008 PARIS, FRANCE, A FRENCH COMPANY.

Inventors : (1) JEAN LEPELLET, (2) JACQUES MORDINI.

Application No. 314/Mas/86 filed on April 24, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

In a process for producing alumina using Bayer process by leaching a bauxite containing alumina principally in the form of gibbsite and silica in the form of aluminium silicate with a reactive silica content of less than 2.5% based on the weight of bauxite with a sodium leaching liquor, separating the liquor from the insoluble residue, cooling the leaching liquor in the presence of an aluminium trihydroxide primer to precipitate aluminium trihydroxide, and separating precipitated aluminium trihydroxide from the liquor, the improvement comprising desilication of the said bauxite prior to leaching by suspending the bauxite in solution containing 50 to 100 gm/litre of caustic Na_2O and wash water originating one or more of the sources during the Bayer process namely washing of insoluble residues, washing of aluminium trihydroxide product and washing of aluminium trihydroxide primer; grinding or crushing the resulting suspensions; heating the crushed suspensions to a temperature in the range 80°C to 100°C until at least 85% of the aluminium silicate in the bauxite is converted into soluble sodium silicoaluminate.

Compl. Specn. 15 Pages.

Drg. 1 Sheet.

Ind. Cl. : 2-A1 & 186-E (Groups-XLI (1) & LXI (1))
Int. Cl.4 : H 04 N 9/64.

167248

COLOUR IMAGE DISPLAY SYSTEM USING SINGLE COLOUR LOOKUP TABLE.

Applicant : INTERNATIONAL BUSINESS MACHINES CORPORATION, A COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., OF ARMONK, NEW YORK 10504, U.S.A.

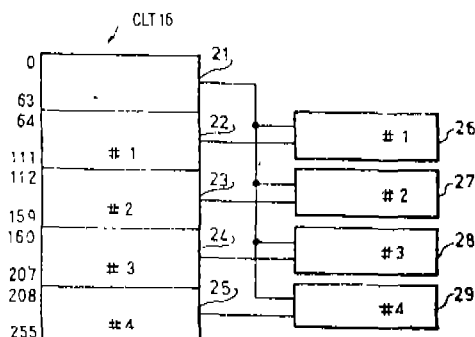
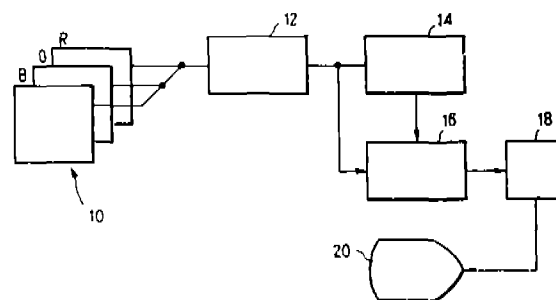
Investors : (1) SHINICHI IWAI, (2) SAKAE UNO.

Application No. 317/Mas/86 filed on April 25, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A colour image display system comprising a colour display device (20), an input for receiving data (10) defining colour images to be displayed, a quantizer (12) connected to the input and, independently, to both the frame buffer 14 and a colour lookup table (16), the output of the frame buffer being connected to the lookup table and the output of the colour lookup table being connected to the colour display device, the quantizer (12) analysing the input data twice, the first time to write colour data into the table to create therein a shared area and a plurality of dedicated areas corresponding to the respective images, the shared area having written therein by the quantizer analysed data defining those colours used by a plurality of colour images in common and each of the dedicated areas having written therein data defining colour proper to a corresponding colour image, the second time to write into the frame buffer data defining locations in the colour lookup table, whether the quantizer has written in the shared area or the corresponding dedicated area, the colour defining data appropriate to the image point of the composite display corresponding to the frame buffer location, the output of the frame buffer accessing the colour lookup table to drive the display device.



Compl. Specn. 20 Pages.

Drgs. 6 Sheets.

Ind. Cl. : 39-L [Group-III]
Int. Cl.4 : C 01 F 7/06

167249

PROCESS FOR THE CONTINUOUS PRODUCTION OF ALUMINA FROM BAUXITES CONTAINING MONOHYDRATES USING THE BAYER PROCESS.

Applicant : ALUMINIUM PECHINEY, OF 23, RUE BALZAC, 75008 PARIS, FRANCE, A FRENCH COMPANY.

Inventor : JEAN LEPETIT

Application No. 327/Mas/86 filed on April 29, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims No drawing

A process for the continuous production of alumina using the Bayer process by alkaline attack in reactors on bauxites primarily comprising aluminium monohydrates and containing silica in a free state or combined in the form of aluminium silicate with the purpose of retarding scaling of the reactors by deposits of sodium silicoaluminate on the walls of the reactors, the said process comprising the steps of:

- (i) preparing a suspension of the bauxite by crushing in an aqueous solution of sodium hydroxide;
- (ii) raising the temperature by heat exchange with a heat exchange fluid in a tubular reactor, to a temperature of from 200°C to 300°C and preferably from 230°C to 290°C and maintaining at that temperature for solubilising at least 90% of the extractible alumina;

- (iii) bringing the suspension to atmospheric pressure by successive expansion operations, with recovery of the steam;

- (iv) recovering alumina from the suspension;

characterised in that, between the steps i and ii, the suspension of bauxite is first raised to a temperature from 90 to 108°C and held at that temperature for a period of time sufficient to convert at least 75% of the aluminium silicate contained in the bauxite into insoluble sodium silico-aluminate, and then subjected to steam heating by passing through a tube type heat exchanger under pressure at a temperature at least equal to 160°C and preferably between 160°C and 230°C with a rate of rise in temperature comprised between 2 and 12°C/minute and with a speed of flow in the tubular reactor comprised between 0.4 and 7 meters per second.

Compl. Specn. 21 Pages.

No. drawing.

Ind. Cl. : 31-C [Group-LVIII]
Int. Cl. 4 : H 01 C 17/00

167250

PROCESS FOR THE MANUFACTURE OF A VOLTAGE-DEPENDENT CERAMIC RESISTANCE BASED ON ZnO, AND A VOLTAGE DEPENDENT RESISTANCE THEREOF.

Applicant : BBC BROWN, BOVERI LTD., OF CH-5401 BADEN, SWITZERLAND, A SWISS COMPANY.

Inventors : (1) MAGED A. OSMAN, (2) ROGER PERKINS, (3) FRIEDRICH SCHMUCKLE, (4) CLAUS SCHULER.

Application No. 335/Mas/86 filed on April 30, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

8 Claims

A process for the manufacture of a voltage-dependent ceramic resistance based on ZnO and other oxides selected from the group of addition elements Co, Mn, Cr, Ni, Ba, Bi, Sb, rare earths, Al, B, Si, Ga, Ti comprising the steps of:

- (i) first suspending the ZnO in powder form in an aqueous solution, adding the particular addition element in the form of a citrate, formate, acetate, lactate or another organic salt dissolved in water in the case of the elements Co, Mn, Cr, Ni, Al, Ba, Bi, Sb, Ga, Ti and rare earths, and in the form of an acid or the ammonium salts thereof or alkyl esters dissolved in water in the case of the elements Cr, Si, and B, resulting in a suspension of ZnO in an aqueous solution of the addition element;
- (ii) immediately drying the said suspension of ZnO in the aqueous solution of the addition element in a spray dryer in the presence of air to a powder or granules;
- (iii) uniaxially, two-dimensionally radially or isostatically cold pressing this powder or these granules and subsequently heating the press body for the purpose of sintering in stages to a temperature of 650°C, 900°C, and 1100°C to 1300°C; and
- (iv) cooling the sintered body prepared in this manner to room temperature.

Compl. Specn. 13 Pages.

Drg. 1 Sheet.

Ind. Cl. : 85-Q—[GROUP-XXXI]
Int. Cl. 4 : F 27 B 3/06

167251

A ROTARY HEARTH EMPLOYABLE IN A ROTARY HEARTH FURNACE.

Applicant : THE INTERNATIONAL METALS RECLAMATION COMPANY, INC., OF P. O. BOX 720, ELLWOOD CITY, PA 16117, U.S.A., A.U.S. COMPANY.

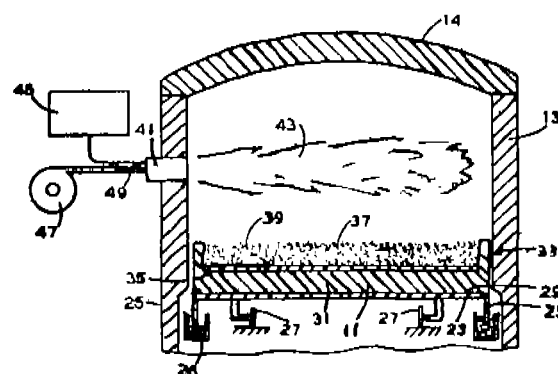
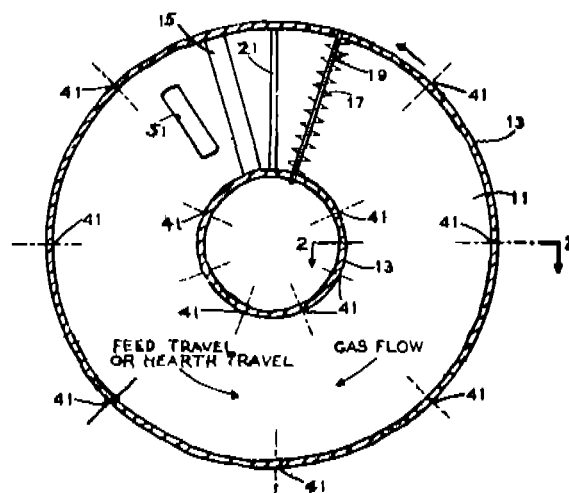
Inventors : (1) RICHARD H. HANEWALD, (2) JOHN K. FARGETER.

Application No. 337/Mas/86 filed on April 30, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims

A rotary hearth employable in a rotary hearth furnace comprising a supportive, insulative impervious base supporting inner and outer containing walls, said hearth being adaptable to rotate in an essentially horizontal plane around an axis, said base having a top surface made of loose granular refractory material bounded by said inner and outer containing walls.



Compl. Specn. 10 Pages.

Drg. 1 Sheet.

Ind. Cl.: 24-B—[GROUP-IV]
Int. Cl.4: F 16 D 51/34

167252

A DRUM BRAKE COMPRISING THREE BRAKE SHOES.

Applicant: LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM 19, ENGLAND.

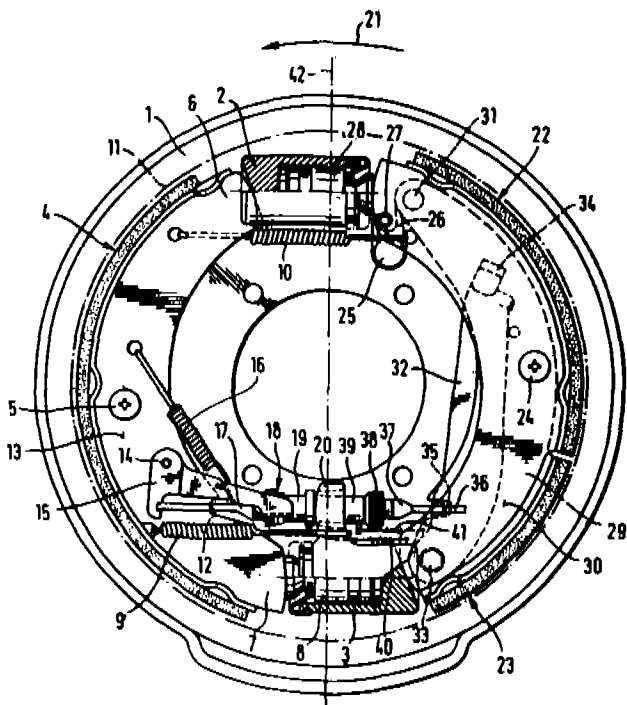
Inventor: HEINRICH-BERNHARD RATH.

Application No. 368/Maa/86 filed on May 14, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A drum brake for a vehicle wheel comprising first, second and third brake shoes, means for hydraulically actuating two of said brake shoes but not said third shoe, and means for mechanically actuating one of said two shoes means for supporting said first two shoes so that upon hydraulic actuation both are trailing shoes when the said wheel is travelling in a forward direction and for supporting said one of said first two shoes and said third shoe so that upon mechanical actuation in the forward direction of wheel travel one of the last mentioned shoes is a trailing shoe and the other a leading shoe and *vice versa* in the backward travel of the said wheel.



Compl. Specn. 10 Pages.

Dwg. 1 Sheet.

Ind. Cl.: 191—[GROUP-XXXVII(2)]
Int. Cl.4: B 41 J 35/22

167253

A PRINTER FOR PRINTING DATA ON A PRINT MEDIUM.

Applicant: INTERNATIONAL BUSINESS MACHINES CORPORATION, A COMPANY, ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, U. S. A., OF ARMONK, NEW YORK 10504, U.S.A.,

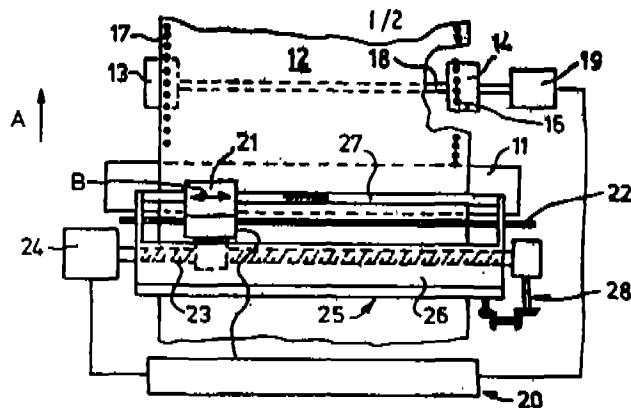
Inventors: (1) PHUC KDO, (2) CAROL E WYKE, (3) BARNES R KENDRICK, (4) DENNIS R HEDRICK, (5) DEMETRIOS* TROUPES.

Application No. 422/Maa/86 filed on May 29, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

A printer for printing data on a print medium, comprising a print head mounted for movement relative to a print medium, a supply of ink ribbon, including a span of ink ribbon which is interposed between the print head and the print medium, means for moving the print head and for simultaneously advancing ink ribbon from the supply into the span as the print head is moved in at least one direction, and control means for directing print data to the print head and controlling movement of the print head, the control means having means utilising information relating to the data to be printed for detecting when the printing density exceeds a predetermined level, and means, responsive to the detection of the predetermined value being exceeded, to move the print head an amount greater than that necessary to position the print head at a succeeding print position so as thereby to cause additional ink ribbon to be advanced from the supply and to avoid superimposing additional print impressions on portions of the ink ribbon where a high density of print impression has already occurred.



Compl. Specn. 16 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 206-E—[GROUP-LXII]
Int. Cl.4: B 60 C 23/02 & 23/20

167254

DEVICE FOR CODING THE VALUE OF TWO VARIABLES MEASURED IN A TIRE.

Applicant: MICHELIN & CIE (COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN), A FRENCH COMPANY, OF 4 RUE DU TERRAIL, 63000 CLERMONT FERRAND, FRANCE.

Inventors: (1) ANDRE DOSJOUR, (2) DAVID MYATT.

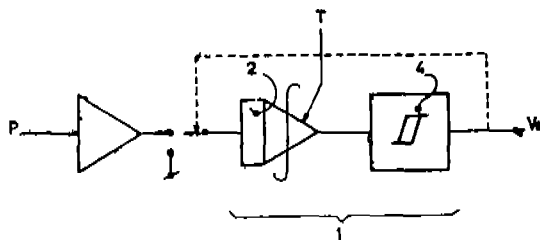
Application No. 460/Maa/86 filed on June 13, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

13 Claims

A device for coding the value of two variables measured in a tire, which permits the transmission of the values to the chassis bearing the tire without galvanic contact, the said device comprises :

- (a) a first unit the transfer function of which is a function of the first of the variable measured;
- (b) means for connecting to the input of the first unit either a reference voltage or a voltage which is a function of the second of the variables measured;
- (c) a second unit controlled by the output signal of the first unit and delivering a pulse signal the parameters of which bear the values of the measured variables.



Compl. Specn. 18 Pages.

Drgs. 5 Sheets.

Ind. Cl. : 110-[GROUP-XXI (2)]

167255

Int. Cl.⁴ : D 04 B 15/38.

A STORAGE POSITIVE FEEDING DEVICE WITH INTEGRAL STOP MOTION CUM YARN POSITIONER FOR FEEDING THE YARNS POSITIVELY AT A PREDETERMINED CONSTANT RATE TO THE KNITTING ELEMENTS OF A CIRCULAR WEFT KNITTING MACHINE.

Applicant : THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION, COIMBATORE AERODROME P.O., COIMBATORE-641 014, INDIA, A SOCIETY REGISTERED UNDER THE SOCIETIES REGISTRATION ACT, 1860.

Inventors : (1) TARKAD VEDAMURTHY RATNAM, (2) SENNIMALAI GOUNDER RAMASWAMY, (3) PALANISWAMY MUTHUKUMARASWAMY.

Application and Provisional Specification No. 494/Mas/86 filed on June 30, 1986.

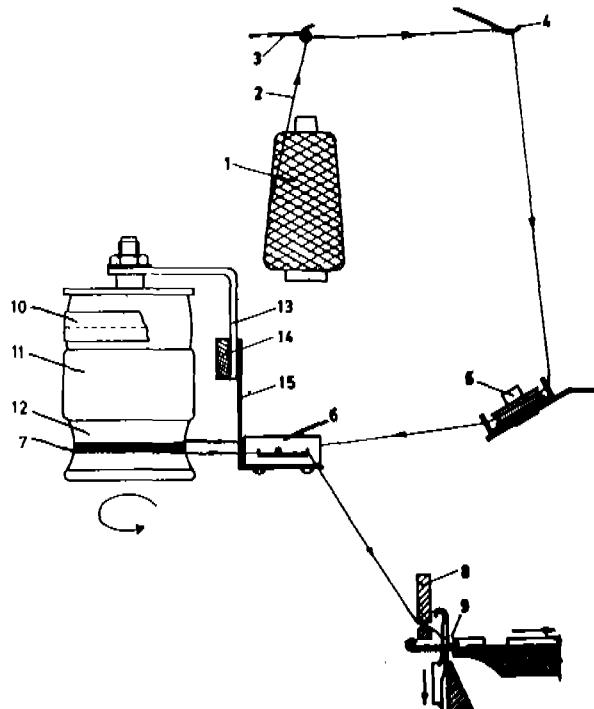
Complete Specn. left on 21st January, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A storage positive feeding device with an integral stop motion cum yarn positioner for feeding the yarns positively at a predetermined constant rate to the knitting elements (9) of a circular weft knitting machine comprising : a storage feed wheel with a curved profile portion (12) a positive storage unit (11) and a belt driven portion (10) the feed wheel being mounted by means of a bracket (13) attached to a circular ring (14) for fixing to a knitting machine the said feed wheel being driven by a continuous tape and a stop motion cum yarn positioner unit (6) with a yarn position guide (6.1) and a drop wire

means (6.2) to stop the machine in the event of a breakage in yarn, the stop motion cum yarn positioner being mounted on an 'L' shaped bracket (15) attached to the said circular ring (14).



Prov. 11 Pages.

Compl. Specn. 16 Pages.

Drgs. 2 Sheets.

Drgs. Nil.

Ind. Cl. : 42 D- [GROUP-XVI]

167256

Int. Cl.⁴ : A 24 B 3/12.

A METHOD OF MANUFACTURING SMOKING TOBACCO WITH MODIFIED SMOKE FLAVOUR.

Applicant : PHILLIP MORRIS PRODUCTS INC., OF 3601, COMMERCE ROAD, VIRGINIA 23234, UNITED STATES OF AMERICA, A VIRGINIAN CORPORATION.

Inventors : (1) EVERETT WEST SOUTHWICH, (2) DENNIS MICHAEL DRISCOLL.

Application No. 519/Mas/86 filed on July 4, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

8 Claims

A method of manufacturing smoking tobacco with modified smoke flavour by treating the cured bright tobacco with liquid ammonia at a temperature between -80° and 50° C to form a solution of tobacco components in the liquid ammonia, removing the ammonia, and recombining the dissolved components with the treated tobacco to obtain smoking tobacco with modified smoke flavour.

Compl. Specn. 10 Pages.

No drawing.

Ind. Cl. : 119-F6-[GROUP XXI (3)]
Int. Cl. 4-B 65 H 59/38.

167257

A YARN DELIVERY DEVICE.

Applicant : SOBREVIN SOCIETE DE BREVETS INDUSTRIELS-ETABLISSEMENT OF ALTENBACH 1, FL-9490 VADUZ (FURSTENTUM LIECHTENSTEIN), ALIECHTENSTEIN COMPANY.

Inventor : ALBERTO GUSTAVO SARFATI.

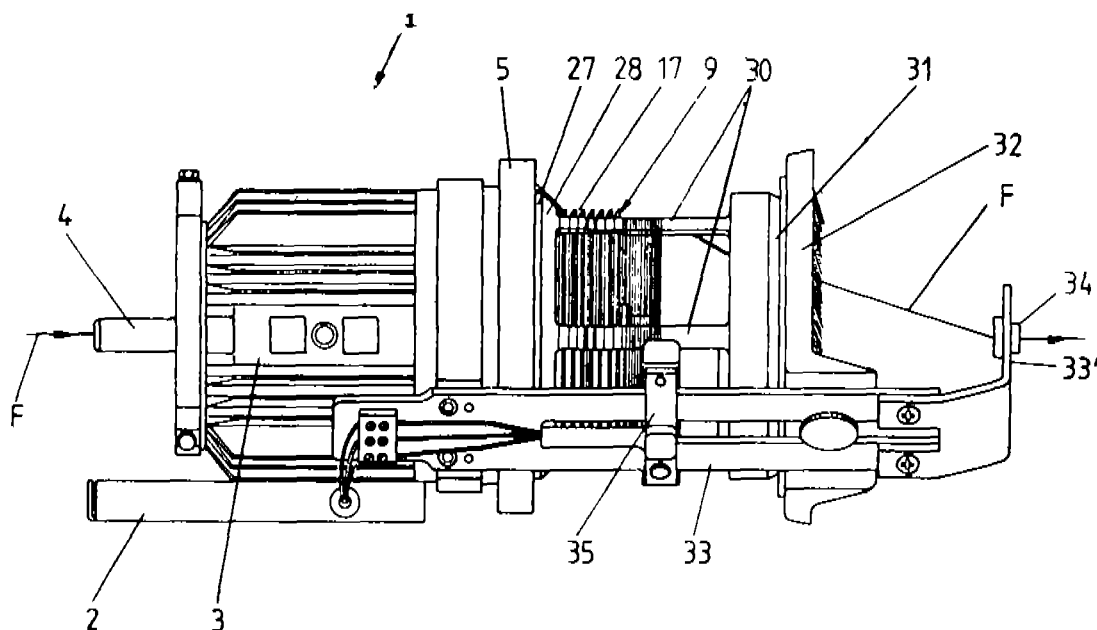
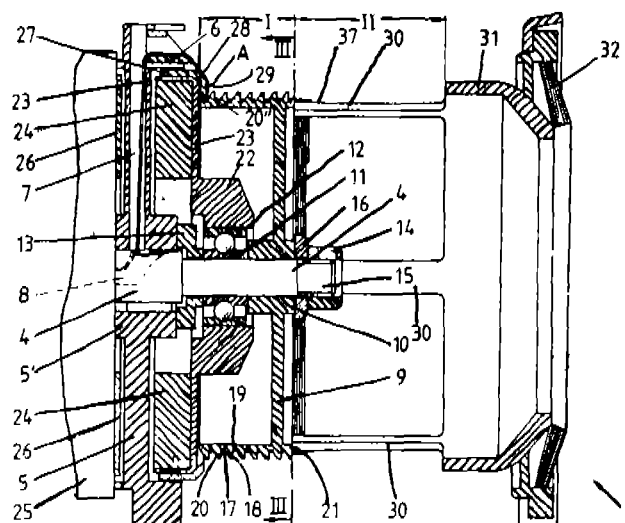
Application No. 599/Maa/86 filed on July 28, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims

A yarn delivery device comprising a storage member having two parts (I, II) so disposed one after another that the first part (I), on to which the yarn runs tangentially to form a rewind supply, is in the form of a polygon embodied by bars (30), screw-thread grooves (17) rotating between the bars and having driving faces (20) to advance the turns of yarn on to the second part (II) formed by extensions of the bars (30), the yarn being adapted to taken off over end from the second part (II), there being associated therewith a scanner (35) which is

controlled by the second foremost yarn turn and adapted to control yarn in feeding, wherein the polygon periphery length of the first path (I) corresponds substantially to that of the second part (II) and the base (19) of the grooves (17) is disposed radially inwards by a distance (x) from the straight lines connecting adjacent polygon bars (30).



Compl. Specn. 14 Pages.

Drgs. 4 Sheets.

Ind. Cl. : 69-M-[GROUP-LIX(1)]
Int. Cl. 4 : H 01 H 5/00.

167258

AN OPERATING MECHANISM OF A HIGH-RATING MULTIPOLE ELECTRICAL CIRCUIT BREAKER.

Applicant : MERLIN GERIN OF RUE HENRI TARZE, 38050 GRENOBLE CEDEX (FRANCE), A FRENCH COMPANY.

Inventors : (1) BAGINSKI PIERRE, (2) NEBON JEAN PIERRE.

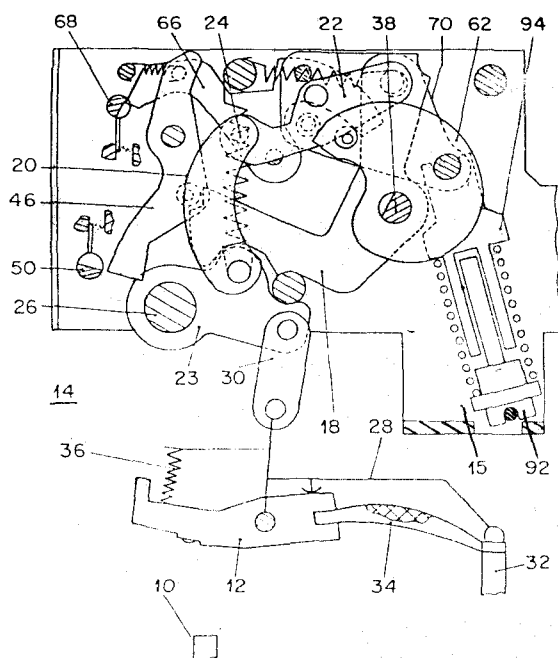
Application No. 822/Mas/86 filed on October 17, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

8 Claims

An operating mechanism of a highrating multipole electrical circuit breaker, each pole having a pair of separable contacts including a movable contact actuated between a closed position and an opened position, said mechanism comprising :

- a toggle device associated with a trip member and an opening spring for moving the movable contact towards the opened position, charging of the opening spring being carried out automatically when a closing operation is performed,
- a stored energy system with an elastic device comprising at least one closing spring arranged to move the movable contact to the closed position,
- a rotatable recharging cam located in a charged position for charging said closing spring, and in a discharged position for allowing said closing spring to be decompressed,
- a closing pawl cooperating with a latching bolt to lock the cam in the charged position, and to unlock the cam in the discharged position,
- a kinematic transmission chain cooperating with said recharging cam and having a drive lever arranged between said stored energy system and the toggle device,
- a telescopic link of said stored energy system having two parts with relative movement between which said closing spring is fitted,
- a removable blocking device capable of locking said telescopic link when the two parts approach one another for the compression of said closing spring at the end of charging travel, and
- a sub-assembly including said telescopic link and the compressed closing spring, which can be removed from the stored energy system upon release of said cam when the closing pawl is unlocked so as to cause a break in the kinematic transmission chain with the toggle device.



Compl. Specn. 15 Pages.

Drgs. 7 Sheets.

Ind. Cl. : 201-C
Int. Cl. : C 02 F 1/68

167259

A PROCESS FOR THE PRODUCTION OF A COAGULANT FOR THE TREATMENT OF INDUSTRIAL EFFLUENTS, UTILISING THE LIQUID EFFLUENT FROM SULPHATE ROUTE TITANIUM DIOXIDE PLANT.

3—G-257 GI/90.

Applicant & Inventor : PARAMESWARA PILLAI, SIVASANKARA PILLAI, PROFESSOR OF CHEMICAL ENGINEERING OF TRICHUR ENGINEERING COLLEGE, TRICHUR, KERALA STATE, AN INDIAN CITIZEN.

Application No. 889/Mas/86 filed on November 18, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A process for the manufacture of a coagulant consisting mainly of ferrous sulphate and aluminium sulphate and small quantities of titanyl sulphate and hydrated titania suitable for the treatment of industrial effluents characterised in that the effluent from the post-precipitation filter of sulphate route titanium dioxide plants mainly consisting of ferrous sulphate, sulphuric acid, small quantities of titanyl sulphate and hydrated titania is reacted with powdered bauxite ore, with simultaneous removal by evaporation of 20-30% of the water content to produce a solid mass on cooling.

Compl. Specn. 9 Pages.

No. drawing.

Ind. Cl. : 32-B & 56-F [GROUPS IX(1) & V]
Int. Cl. : C 07 C 1/04

167260

A PROCESS FOR THE PREPARATION OF HYDROCARBONS BY CATALYTIC REACTION OF CARBON MONOXIDE WITH HYDROGEN.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., OF CAREL VAN BYLANDT LAAN 30, 2596 HR, THE HAGUE, THE NETHERLANDS, A NETHERLANDS COMPANY.

Inventors : (1) JOHAN KORNEL SMINDERHOUD, (2) MARTIN FRANCISCUS MARIA POST.

Application No. 976/Mas/86 filed on December 15, 1986.

Divisional to Patent No. 160912 (292/Mas/84)
Ante-dated to April 25, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

9 Claims

A process for the preparation of hydrocarbons by catalytic reaction of carbon monoxide with hydrogen in which a H_2 and CO containing feed is contacted at a temperature from 125 to 275°C and a pressure of 5 to 150 bar with a catalyst prepared by admixing a carrier selected from silica, alumina or silica-alumina and solutions of salts of cobalt and at least one metal compound selected from zirconium, titanium or chromium, by kneading and/or impregnating to produce a catalyst comprising 3 to 60 parts by weight cobalt and 0.1 to 100 parts by weight of zirconium, titanium and/or chromium per 100 parts by weight of the carrier and satisfying the relation, $(3+4R) > S > (0.3+0.4R)$,

wherein L = the total quantity of cobalt present in the catalyst expressed as mgCo/ml and varies between 12 and 600;

S = the surface area of the catalyst expressed as m^2/ml and varies between 12/7 and 2000;

and

R=the weight ratio of the quantity of cobalt deposited on the carrier by kneading to the total quantity of cobalt present on the catalyst and varies between 0 and 1, the said catalyst has previously been reduced.

Compl. Specn. 27 Pages.

No. drawing

CLASS : 63-E; I

167261

Int. Cl. : H 02 k 9/00.

DIAGNOSTIC APPARATUS FOR AN ELECTRIC GENERATOR SEAL OIL SYSTEM.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : (1) AVELINO JUANGONZALEZ, (2) KURT HEINZ STEINEBRONN, (3) MICHAEL JOSEPH RASINSKI, (4) OWEN RUSSEL SNUTTJER.

Application No. 10/Cal/87 filed on January 2, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

3 Claims

Diagnostic apparatus for a multi-component gas-cooled electric generator seal oil system wherein the generator shaft is sealed against the escape of the cooling gas by means of spaced apart gland seals and wherein sealing oil is supplied to the gland seals comprising :

- (A) a plurality of sensors connected to sense predetermined operating parameters of said seal oil system, while on-line, and to provide respective corresponding output signals;
- (B) diagnostic computer means including a memory into which is stored a rule base for diagnosing the on-line operating condition of said seal oil system;
- (C) said rule base including rules linking a preceding evidence node with a consequent hypothesis node;
- (D) a plurality of said evidence nodes constituting sensor nodes;
- (E) means for inputting said on-line sensor signals into said sensor nodes;
- (F) means for additionally inputting operator generated values into selected ones of said sensor nodes.

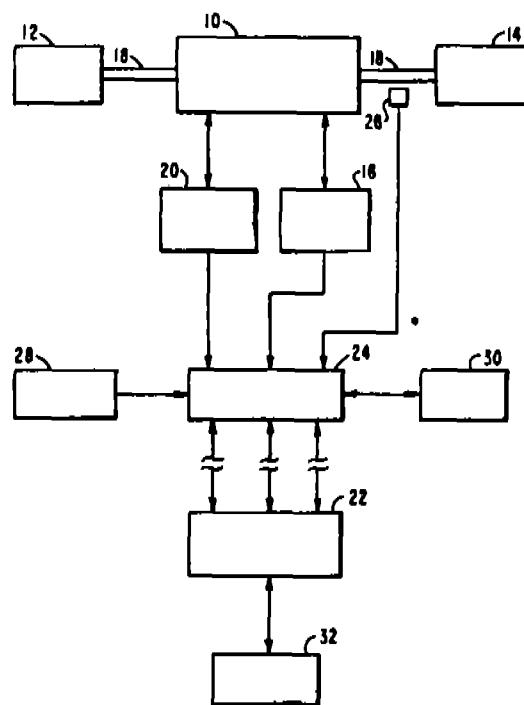


Fig. 1

Compl. Specn. 54 Pages.

Drgs. 21 Sheets.

CLASS : 9-D.

167262

Int. Cl. : C 22 c 16/00.

A PROCESS FOR THE PRODUCTION OF STEEL

Applicant : THYSSEN STAHL AG., OF KAISER-WILHELM-STRASSE 100, D-4100 DUISBURG, WEST GERMANY.

Inventors : (1) CESTMIR LANG, (2) LUTZ MEYER.

Application No. 103/Cal/87 filed on February 3, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims

A process for the production of a steel as a material for articles to be annealed and tempered, characterized in that a steel having :

0.32 to 1.0% carbon
0.20 to 3.0% manganese
up to 2.0% silicon
max. 0.05% phosphorus
max. 0.05% sulphur
0.002 to 0.008% nitrogen
0.015 to 0.08 zirconium
0.010 to 0.10% aluminium
up to 3.5% chromium
up to 3.5% nickel
up to 0.5% molybdenum

residue iron and unavoidable impurities is melted in a basic oxygen furnace; the zirconium/nitrogen ratio is adjusted to the range of 7:1 to 10:1; and the steel is killed with aluminium and then continuously cast to produce steel cast in which after austenization at 800°C to 900°C for more than 10 minutes, the austenite grain size is coarser than or equal to ASTM 6.

Compl. Specn. 12 Pages.

Drgs. Nil.

CLASS : 119-B; D; F₁; C.

167263

Int. Cl. : D 03 d 3/02.

METHOD AND DEVICE FOR THE MANUFACTURE OF A TUBULAR FABRIC IN PARTICULAR FOR THE MANUFACTURE OF SACKS.

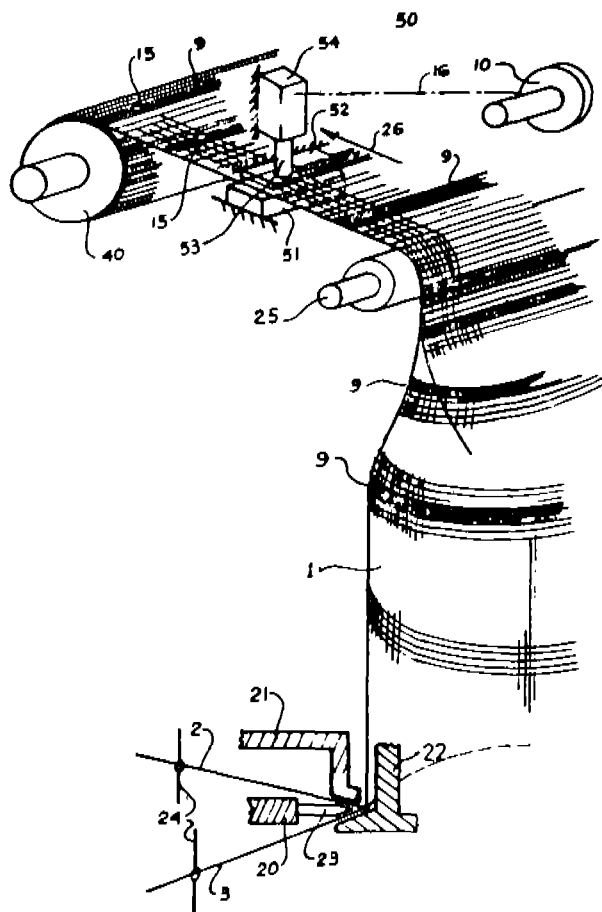
Applicant & Inventor : FRANZ X. STARLINGER-HUEMER, OF SONNENUHRGASSE 4, 1060 VIENNA/AUSTRIA.

Application No. 131/Cal/87 filed on February 18, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

A method for the manufacture of a tubular fabric, in particular for the manufacture of sacks, on a circular loom, in which, in the tubular fabric, weft yarn thickenings ensue periodically and with predetermined spacings forming transverse bands, at which places a subsequent cutting of the fabric web takes place, for which a readable or scannable register making is applied to the fabric the individual marks thereof corresponding to the longitudinal spacings of the transverse bands in order to render a subsequent registration-stable advance of the fabric web, which is to be cut, possible, characterized thereby, that, at a location of the circular loom, between the zone where the tubular fabric web is laid flat and the textile beam, the register marking, in form of at least one perforation, is in each case applied to the transverse bands formed by the weft thread thickenings.



Compl. Specn. 11 Pages.

Drg. 1 Sheet.

Int. Cl. : H 03 n 1/00.

167264

ANALOG-DIGITAL HYBRID INTEGRATED CIRCUIT.

Applicant : OKI ELECTRIC INDUSTRY CO. LTD.; OF 7-12 TORANOMON 1-CHOME, MINATO-KU, TOKYO, JAPAN.

Inventors : (1) HIROSHI HASHIMOTO & (2) OSAMU SHIRAISHI.

Application No. 158/Cal/87 filed on March 2, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

An analog-digital hybrid integrated circuit comprising :

an analog signal input terminal for receiving an analog signal;

a power source terminal for supplying a source voltage to said integrated circuit;

a power source ground terminal for providing a ground potential to said integrated circuit;

an analog ground terminal connected to said power source terminal and said power source ground terminal by a voltage divider means so as to provide an intermediate potential between a power source potential on said power source terminal and said ground potential on said power source ground terminal;

an interval analog circuit connected to said analog signal input terminal and said analog ground terminal;

an internal logical circuit connected to said interval analog circuit;

a by-pass capacitor connected between said analog ground terminal and said power source ground terminal;

a level comparing means having a minus (—) terminal and a plus (+) terminal, said minus (—) terminal being connected to said analog ground terminal and said plus (+) terminal being adapted to receive a synthesized potential of voltage of said power source terminal divided by a resistor means and a feedstock potential from an output of said level comparing means via another resistor, means said level comparing means said potential on said analog ground terminal with first and second threshold voltages, and delivering a high level voltage to said logical circuit so as to reset said logical circuit when said potential on said analog ground terminal is lower than said first threshold voltage while delivering a low level voltage to said logical circuit when said potential on said analog ground terminal is higher than said second threshold voltage.

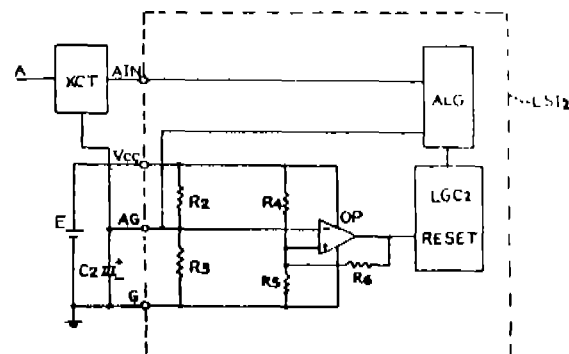


Fig. 2

Compl. Specn. 10 Pages.

Drgs. 2 Sheets.

CLASS : 68-I.

167265

Int. Cl. : H 03 d 13/00.

Inventor : ANADI CHARAN OJHA.

EQUALIZING CIRCUIT.

Applicant : OKI ELECTRIC INDUSTRY CO. LTD., OF 7-12 TORANOMON 1-CHOME, MINATO-KU, TOKYO, JAPAN.

Inventors : (1) YOUSUKE SAKAIDA & (2) HARUTOMO MARITA.

Application No. 186/Cal/87 filed on March 9, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims

An equalizing circuit for correcting frequency characteristics of input signals, said input signals being transmitted through a transmission circuit, said equalizing circuit comprising :

a high-pass circuit connected to said transmission circuit for correcting said frequency characteristics of said input signals, said high-pass circuit comprising at least one capacitor and two resistances;

a Sallen-Key low-pass circuit connected to said high-pass circuit, said Sallen-Key low-pass circuit having a first amplifying means, including a means for gain regulation thereof, for amplifying a signal from said high-pass circuit;

a second amplifying means connected to an input terminal of said first amplifying means for amplifying a signal supplied to an input terminal thereof, said second amplifying means including a means for gain regulation thereof;

a control circuit connected to an output terminal of said second amplifying means for detecting the peak level of an output signal of said second amplifying means and for providing an output corresponding thereto, said control circuit output connected to both of said means for gain regulation, thereby controlling the gain of said first and second amplifying means on the basis of the detected peak level.

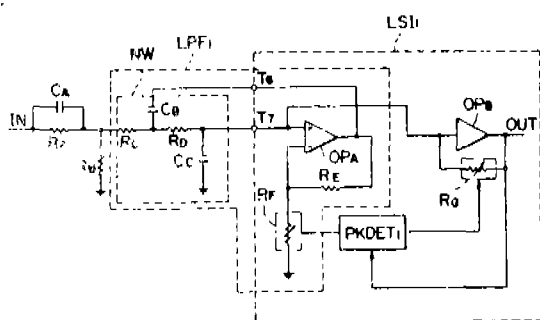


Fig 1

Compl. Specn. 11 Pages.

Drgs. 5 Sheets

CLASS : 52-A.

167266

Int. Cl. : B 76 b 17/00.

A DEVICE FOR CUTTING BETEL-NUT.

Applicant : ORISSA RENEWABLE ENERGY DEVELOPMENT AGENCY, 624, SAHEED NAGAR, BHUBANESWAR-751007, ORISSA, INDIA.

Application No. 298/Cal/87 filed on April 16, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims

A device for cutting betel-nut which comprises a base (1), said base having a double walled (2, 3) housing 1A mounted on the same, a nut cutting unit (8) held between the said double walls (2, 3), a front wall (2) and a back wall (3), a nut feeding unit (4) provided in front of the front wall (2) and in alignment with an opening (4C) in the said front wall, the said cutting unit (8) being located in the double walled housing in juxtaposition of the opening (4C), said nut feeding unit having a first housing (4) terminating in a second housing (4A), a plunger unit (4D) mounted to a pivotally secured handle (5), being housed in the forward opening (4E) of the housing (4A), the leading opening (4F) of the housing (4D) being mounted to the opening (4C) in said front wall (2), handle member (5) held to said plunger unit being adapted due to pivotal mounting to the base, to enable the movement of the said plunger unit into and outside the said housing (4D) of the nut feeding unit (4), said nut cutting unit (8) having an arm or handle member (8C) provided at one end (8B) thereof, while the other end (8A) of the said nut cutting unit (8) is spring-loaded by means of a spring (8F) mounted between an extension arm (8E) of the cutting unit (8) and the base or other suitable part of the device, in order to enable it to return to the original position whenever it is not operated, the back wall (3) having an outlet opening or chute in flow communication with the chamber formed between the said two walls, which chamber has a closed bottom, said cutting unit having a pair of blades (8H) and (8I) mounted one above the other slightly offset.

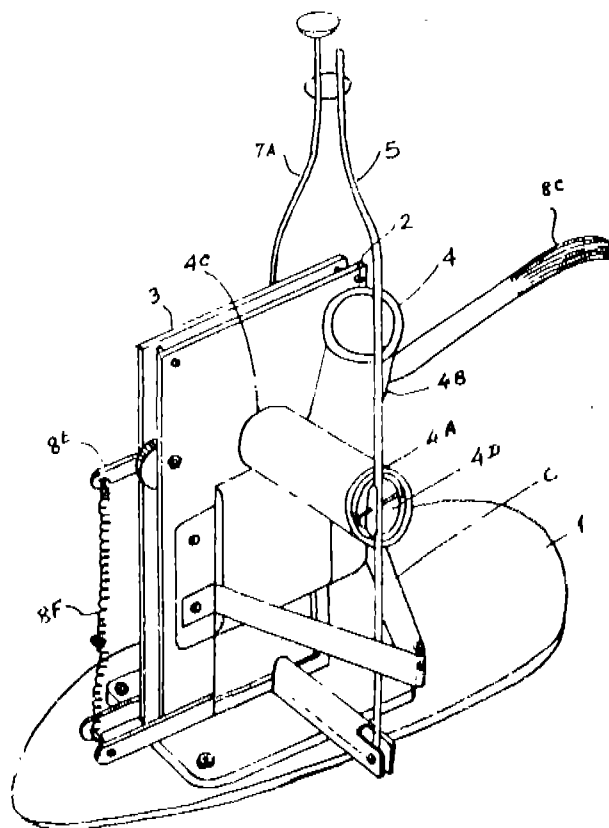


Fig 1

Compl. Specn. 9 Pages

Drgs. 2 Sheets.

CLASS : 136-E, F.

167267

Int. Class : B 29 c 45/00.

METHOD AND APPARATUS FOR MOLDING ARTICLES.

Applicant : GALIC/MAUS VENTURES, OF 5140 ST. MORITZ DR. N. E., COLUMBIA HEIGHTS, MINNESOTA 55421, U.S.A.

Inventors : (1) STEVEN MICHAEL MAUS, (2) GEORGE JOSEPH GALIC.

Application No. 363/Cal/87 filed on May 4, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

11 Claims

A method of forming a plurality of articles from a molten plasticized thermoplastic resin using an injection molding machine having first and second mold platens, first and second parting line mold plates, a plurality of first mold inserts operatively disposed within the first parting line mold plate, and a plurality of second mold inserts operatively disposed within the second parting line mold plate, wherein the first and second mold plates and first and second mold inserts are respectively commonly supported by the first and second mold platens, the method comprising :

- (a) forming a plurality of mold cavities by adjusting relative positions of opposing pairs of inserts upon which the molded plastic articles will be formed, at least one insert being capable of movement relative to the other insert

within settable mechanical limits, wherein the dimensions of said mold cavities are determined by the combination of the distance between the machine's movable platen and its fixed platen and said settable mechanical limits, and said inserts are initially separated within the mold cavities to form pre-enlarged cavity volume greater than a maximum volume occupied at atmospheric pressure by the molten plastic resin to be injected into the cavities, thereby being suitable for receiving the plasticized resin without introducing significant back pressure therein since at least some gas volume is provided for in addition to the volume to be occupied by the plastic molten resin;

- (b) injecting into each mold cavity a volume of the plasticized resin slightly larger than the volume of the article to be formed but insufficient to fill said pre-enlarged mold cavities, said injected resin volume being of at least equal mass of the final molded article at desired dimensions;
- (c) commonly and simultaneously applying the main clamp force of the injection molding machine before completion of said injection, so as to reduce the volumes of the mold cavities, thereby filling said reduced-volume mold cavities and driving out gases through vent means; and
- (d) maintaining the applied main clamp force until final clamp lock-up position is reached, thereby compressing the resin until any slight excess resin is forced into pressure relief means and the resin within the further reduced-volume mold cavities solidifies, such that final molded articles desired dimensions are determined by said settable mechanical limits.

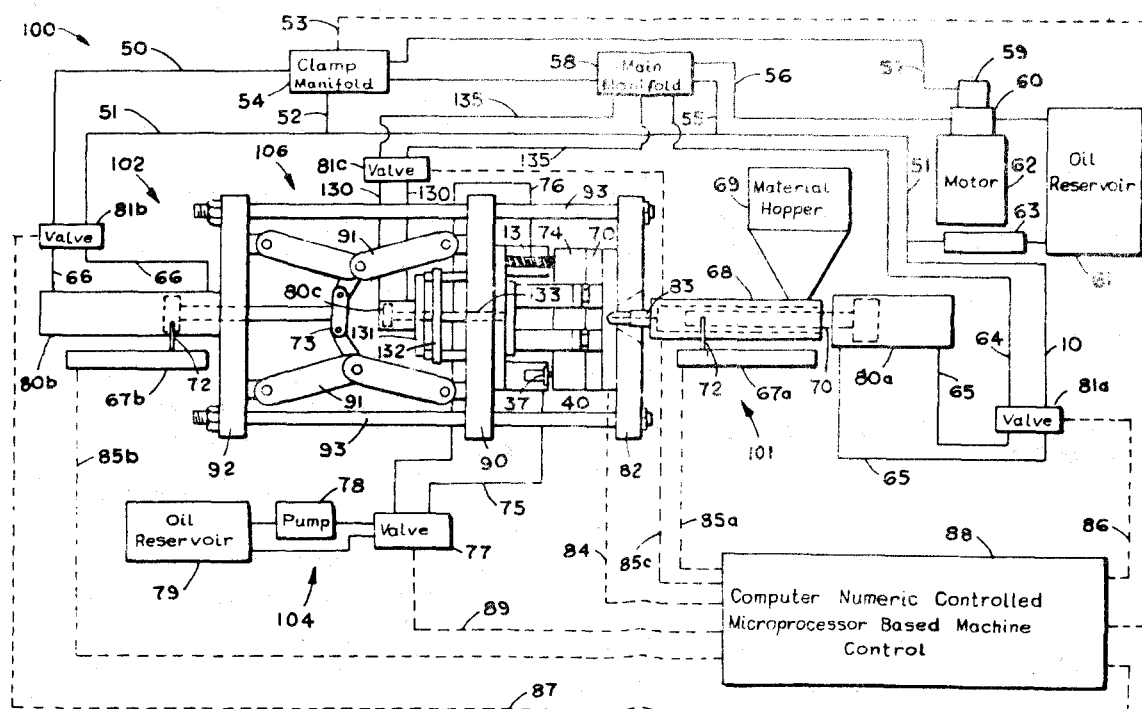


Fig. 1

CLASS : 145-D, E1.
Int. Cl. : D 21 d 5/00; D 21 f 1/00.

167268

AN APPARATUS FOR FORMING A WEB FROM A STOCK JET STREAM.

Applicant : BELOIT CORPORATION, OF P.O. BOX 350, BELOIT, WISCONSIN 53511, UNITED STATES OF AMERICA.

Inventors : (1) JAY ANDERSONS SHANDS, (2) JEFFERY CURT IRWIN, (3) JOHN HARRY SCHAMELL.

Application No. 509/Cal/87 filed on July 1, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

An apparatus for forming a web from a stock jet stream, including a former for projecting the stock stream from its slice, a looped forming wire, a breast roll and a forming board mounted within the looped forming wire, wherein the improvement comprises :

the forming board includes a curved shoe having a nose surface and a downstream surface diverging therefrom :

the breast roll is mounted with its upper peripheral surface disposed beneath a plane extending along the downstream surface;

the forming wire extends between the upper peripheral breast roll surface and the nose surface;

the former slide is positioned over the breast roll to project the stock stream onto the forming wire over the forming board at a small angle, or tangent, thereto at the place impingement.

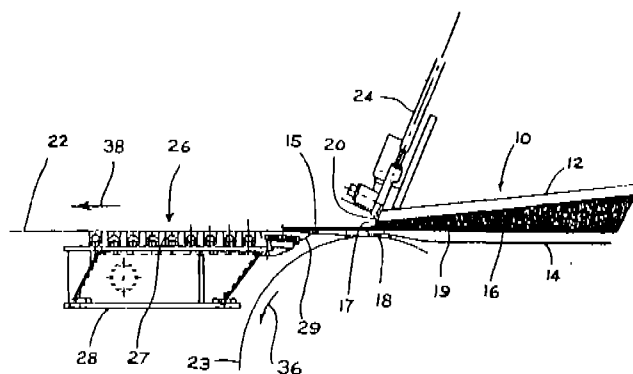


Fig. 1

Compl. Specn. 13 Pages.

Drgs. 2 Sheets.

CLASS : 32-F; 2-B.
Int. Cl. : C 07 d 207/00; 209/00.

167269

A PROCESS FOR PREPARING ARYLPYRROLE COMPOUND.

Applicant : AMERICAN CYNAMID COMPANY, OF THE TOWNSHIP OF WAYNE, STATE OF NEW JERSEY, UNITED STATES OF AMERICA.

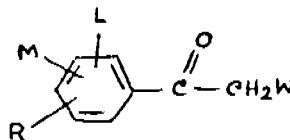
Inventors : (1) DALE GORDON BROWN, (2) JACK KENNETH SIDDENS, (3) ROBERT EUGENE DIEHL, (4) DONALD PERRY WRIGHT, JR.

Application No. 624/Cal/88 filed on July 27, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

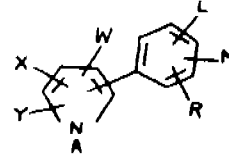
A method for the preparation of a novel arylpyrrole compound having the structure shown in formula I wherein, W is CN or NO₂; L is H, F, Cl or Br; and M and R are each independently H, C₁—C₃ alkyl, C₁—C₃ alkylsulfonyl, cyano, F, Cl, Br, I, nitro, CF₃, R₁ CF₃, Z, R₂ CO or NR₃, R₄, and when M and R are on adjacent positions and taken with the carbon atoms to which they are attached they may form a ring in which MR represents the structure of Formula 'A' or —OCH₂O—, OCF₂O; X is F, Cl, Br, I or CF₃, Y is F, Cl, Br, I, CF₃ or CN₁ and A is H, Z is S(O)_n or O; R₁ is H, F, CHF₂, CHFCI, or CF₃; R₂ is C₁—C₃ alkyl, C₁—C₃ alkoxy, or NR₃R₄; R₃ is H or C₁—C₃ alkyl; R₄ is H, C₁—C₃ alkyl, or R₅CO; R₅ is H or C₁—C₃ alkyl; and n is an integer of 0, 1 or 2; comprising, reacting a substituted or un-substituted benzoylacetone nitrile having the structure shown in Formula P wherein, L, M, R and W are as described above in the presence or absence of an inert organic solvent as herein described, with 2, 2-di (C₁—C₄ alkoxy) ethylamine, at an elevated temperature, to yield α—[2, 2-di (C₁—C₄ alkoxy) ethylamino] β—cyano—(substituted) styrene structure shown in Formula B wherein L, M, R and W are as described above and treating the thus formed α—[2, 2-di (C₁—C₄ alkoxy) ethylamino] β—cyano (substituted) styrene with a mineral or organic acid as herein described to yield the desired arylpyrrole.



Formula (P)



Formula (A)



Formula (I)

Compl. Specn. 178 Pages.

Drgs. 16 Sheets.

CLASS : 69-P
Int. Cl. : H 02 b 1/00, 1/08.

167270.

HOUSING FOR ELECTRICAL SWITCHGEAR.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ, 2, D-8000, MUNCHEN 2, W. GERMANY.

Inventors : (1) HANS-JOAC HIM MUELLER, (2) ROLF MUELLER, (3) HERBERT LOTZ, (4) ERICH TISCHER.

Application No. 154/Cal/88 filed on February 22, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Housing for electrical switchgear having an end wall which has at least one panel which can swing out round a bending line for forming a pressure release aperture, with notches defining the panel, wherein

— the end wall is connected over its entire circumference to adjacent housing parts; and

— the notches extend in the plane of the end wall round the panel and are interrupted only by notch-free portions formed in the bending line and capable of bending and at least one notch-free portion arranged in a notch line opposite to the bending line, this notch-free portion being constructed as a breaking point.

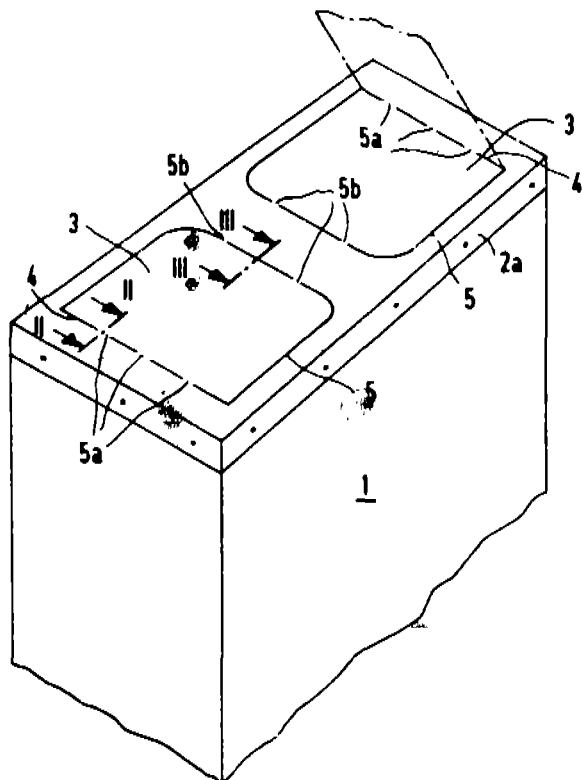


Fig. 1

Compl. Specn. 5 Pages

Drg. 1 Sheet.

Ind. Cl. : 64-B1—[GROUP—LVIII(4)]
Int. Cl. : H 02 B 15/00; 15/18.

167271

CABLE SPLICE CLOSURE.

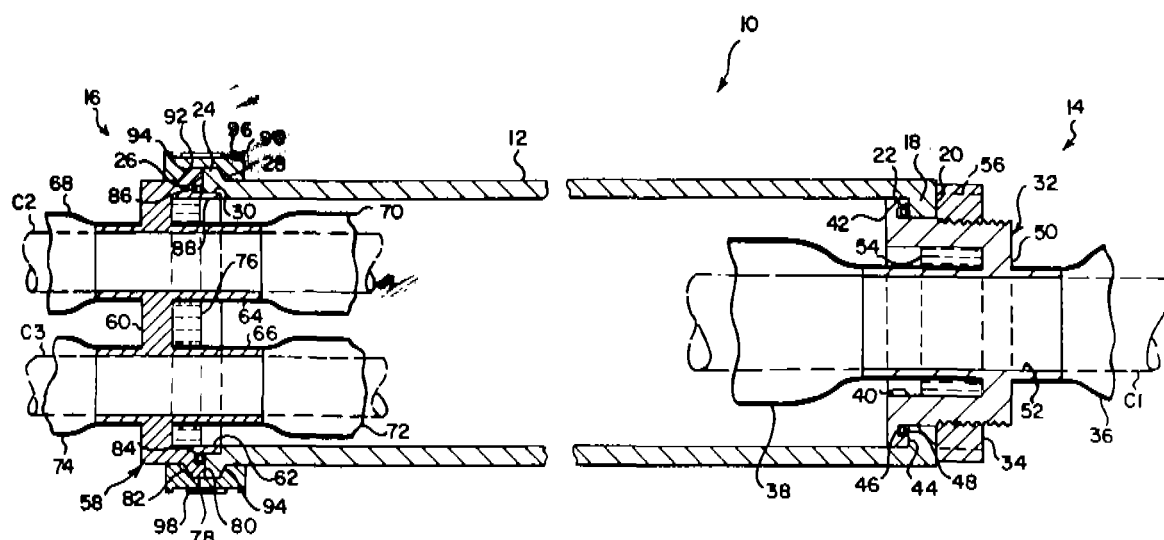
Applicant & Inventor : TRYGVE ERIC HVIDSTEN, OF ARENDAL, HELDRAY ROAD, NOORDHOEK, CAPE TOWN, CAPE PROVINCE, REPUBLIC OF SOUTH AFRICA, A SOUTH AFRICAN CITIZEN.

Application No. 207/Mas/86 filed on March 21, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

12 Claims

A cable splice closure comprising : an open ended sleeve; a first end structure through which, in use, a cable passes from externally of the splice closure to internally thereof; removable fastening means encircling said first end structure and one end of the sleeve for releasably connecting said first end structure to one end of said sleeve, said first end structure and said sleeve being separable by a translational movement in the direction of the axis of the sleeve after the fastening means has been removed; a flange at the other end of the sleeve and protruding inwardly of the inner circumference of the other end of the sleeve; a second end structure through which, in use, a cable passes from externally of the splice closure to internally thereof, the second end structure having an outwardly protruding peripherally extending flange the outside diameter of which is greater than the inside diameter of said flange of the sleeve, said flange of said second end structure being within said sleeve and engagement between said flanges preventing withdrawal of said second end structure from the sleeve through said other end of the sleeve and means for urging said flange of said second end structure towards the flange of the sleeve.



Compl. Specn. 19 Pages.

Drgs. 3 Sheets.

Ind. Cl.: 194-C1—[GROUP—LXIII(4)]
Int. Cl.: H 01 J 29/07.

167272

COLOUR CATHODE RAY TUBE.

Applicant: KABUSHIKI KAISHA TOSHIBA, OF 72 HORI-KAWA-CHO, SAIWAI-KU, KAWASAKI-SHI, KANAGAWA-KEN, JAPAN; A JAPANESE COMPANY.

Inventors: (1) SHIGEO TAKENAKA, (2) HIIDEMI MATSUDA, (3) TAHEO ITOU, (4) NORIO HOIIE.

Application No. 219/Mas/86 filed on March 25, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims

A colour cathode ray tube comprising:

a panel (3) formed with a phosphor screen (4) on its inside face:

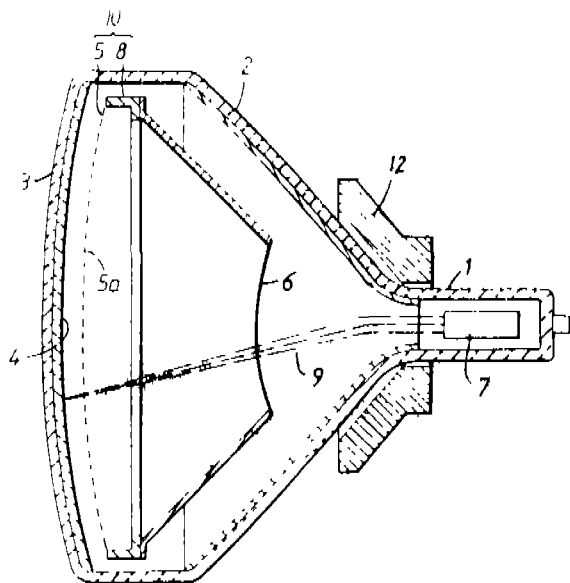
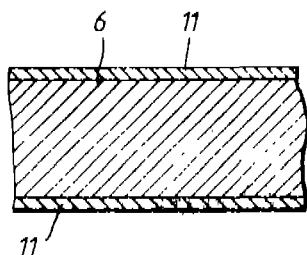
a neck (1) having an electron gun assembly (7) facing said phosphor screen:

a funnel (2) joining said neck to said panel constituting an envelope:

a shadow mask assembly (10) comprising a shadow mask (5) arranged close to and facing the electron gun side of said phosphor screen and a mask frame supporting said shadow mask; and

an inner shield (6) extending on the electron gun side from said shadow mask assembly (10) along the inner face of said funnel,

characterized in that at least one surface of said shadow mask assembly (10) and said inner shield (6) is provided with a blackened region (11) containing Al, Fe and Si, and the Si content in the vicinity of the surface of said blackened region is greater than 1.5 wt% and less than 30 wt%.



Compl. Specn. 15 Pages.

Drgs. 3 Sheets.

Ind. Cl.: 172—D4—[GROUP—XX]
Int. Cl.: D 01 H 15/00.

167273

METHOD FOR PIECING A YARN IN A FRICTION SPINNING DEVICE.

Applicant: MASCHINENFABRIK RIETER AG, A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND, OF CH-8406 WINTERTHUR, SWITZERLAND.

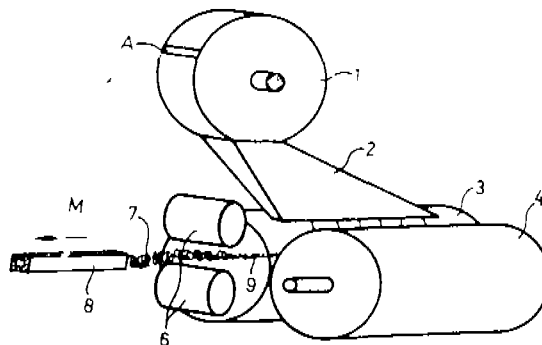
Inventors: (1) EMIL BRINER, (2) URS KELLER.

Application No. 261/Mas/86 filed on April 9, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

12 Claims

A method for piecing a yarn in a friction spinning device, comprising the steps of: supplying a fiber to a yarn formation position of a friction spinning surface of a friction device and twisting said fibers to form a twisted fiber structure of predetermined size; grasping said twisted fiber structure; holding and withdrawing said twisted fiber structure in a yarn withdrawal direction until said twisted fiber structure is located outside said yarn formation position; and sucking away said twisted fiber structure and a yarn-like structure adjoining said twisted fiber structure.



Compl. Specn. 12 Pages.

Drgs. 3 Sheets.

Ind. Cl.: 127-I—[GROUP—LXV] ..

167274

Int. Cl.: E 02 F 3/627.

COUPLING APPARATUS FOR USE BETWEEN A PAIR OF SUPPORT ARMS.

Applicant: CATERPILLAR TRACTOR CO., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF CALIFORNIA, U.S.A., OF 100 N.E. ADAMS STREET, PEORIE, ILLINOIS 61629-6490, U.S.A.

Inventors: (1) ROBERT LEE DEGEETER, (2) HARVEY ALBERT KNELL.

Application No. 272/Mas/86 filed on April 11, 1986.

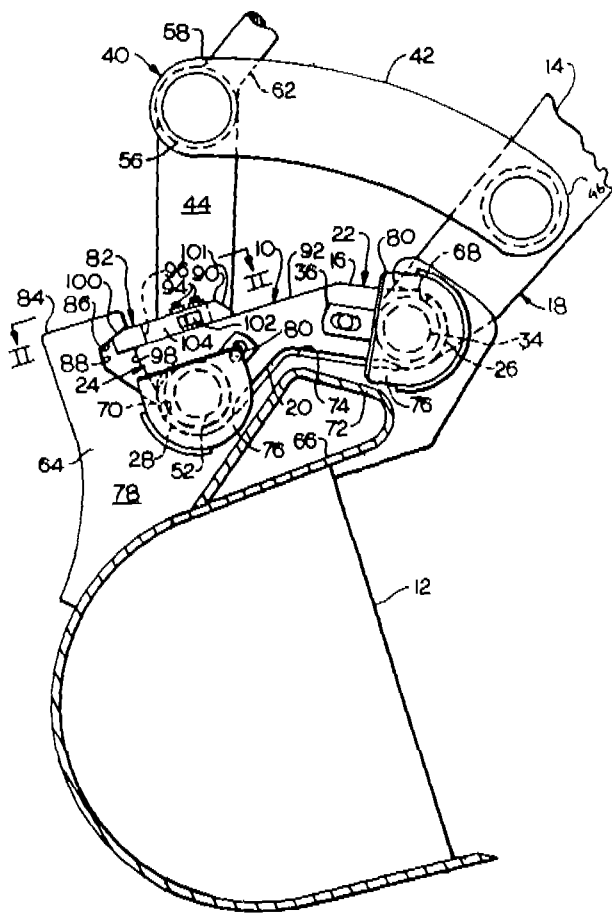
Convention date: September 17, 1985. (No. 490, 918; Canada).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

12 Claims

A coupling apparatus for use between a pair of support arms (14, 44) having distal ends (18, 48) and a work implement (12), comprising: a pair of hinge plates (64) adapted to be mounted on the work implement (12) in substantially rigid, non-deformable relationship therewith; means (16) for directly pivotally connecting said support arms (14, 44) to said hinge plates, said connecting means (16) having a pair of connecting links, each link having a first and second end portion (22, 24) and being positionable to engage one of the respective

hinge plates (64) with their end portions aligned in direct, linear force transmitting engagement therewith; a first and second pin member (34, 52) extending laterally between the respective first and second end portions (22, 24) of the connecting links (16) to pivotally mount the connecting links (16) to the respective work implement (12) and support arms (14, 44) said pin members (34, 52) being the sole interconnection between said connecting links (16); and locking means (82, 28') for locking each connecting link (16) and its corresponding hinge plate (64) said locking means (82, 82') being simultaneously engageable with both said connecting link (16) and its corresponding hinge plate (64) and locking them together said engaging means (82, 82') being positioned in linear relation to both the connecting link (16) and the hinge plate (64) so that forces passing through the engaging means (82, 82') are transmitted along a linear path.



Compl. Specn. 21 Pages.

Drgs. 3 Sheets.

Ind. Cl.: 148—M & H—[GROUP—XXXVIII (3)]
Int. Cl.⁴: G 03 B 27/00

167275

METHOD OF MAKING A PATTERNED PHOTOPOLYMER COATING ON A PRINTING ROLLER AND ALSO A PRINTING ROLLER WITH PATTERNED PHOTOPOLYMER COATING.

Applicant: STORK SCREENS B.V., OF 3, REAMSTRAAT, 5831 AT BOXMEER, THE NETHERLANDS.

Inventor: JOHANNES KOOIJ.

Application No. 322/Maa/86 filed on April 28, 1986.

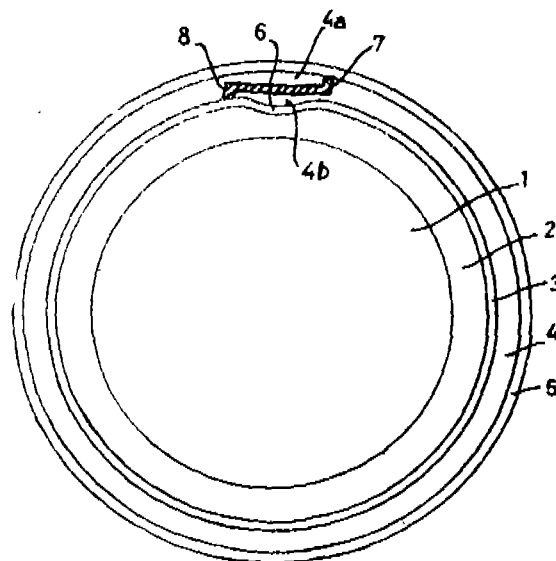
4—G-257 GI/90.

Convention date: April 2, 1986. (No. 215656; New Zealand).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent office, Madras Branch.

5 Claims

Method of making a patterned printing roller in which a removable light-sensitive, seamless intermediate layer, applied to a photopolymer layer and adhering closely thereto, is exposed and optionally developed in a first stage essentially to form a desired patterned opaque image in said intermediate layer and subsequently the photopolymer layer is exposed via the image formed in the intermediate layer, after which exposure the opaque intermediate layer parts and the soluble parts of the photopolymer layer are removed wherein the photopolymer layer is constituted by a relatively thick, flexible photopolymer layer whereas in the first stage exposure is carried out via a patterning film which has been applied around said intermediate layer and after the first stage the patterning film is removed and exposure of said photopolymer is postponed until depressed parts of the photopolymer layer have returned to the original state.



Compl. Specn. 13 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 32—E—[GROUP—IX (1)]
Int. Cl.⁴: C 08 B 136/06

167276

AN IMPROVED PROCESS FOR PREPARING BUTADIENE POLYMERS.

Applicant: ENICHEM ELASTOMERI S.p. A., A COMPANY ORGANIZED UNDER THE LAW OF THE ITALIAN REPUBLIC OF VIA RUGGERO SETTIMO, 55—90139 PALERMO, ITALY.

Inventors: (1) ANTONIA CARBONARO, (2) SILVANO GORDINI, (3) SALVATORE CUCINELLA.

Application No. 339/Maa/86 filed on May 1, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent office, Madras Branch.

8 Claims

An improved process for preparing butadiene polymers by the catalytic polymerization of butadiene monomer, in the absence of solvents or diluents, said process comprising: preparing a catalytic mixture by placing in contact in an inert hydrocarbon vehicle; (a) at least one neodymium compound selected from neodymium oxide, alcoholates, phenates and carboxylates or mixtures thereof with other rare earth elements; (b) at least one organic compound containing alcoholic or phenolic hydroxyl groups or carboxyl, selected from alcohols, phenols and carboxylic acids, and optionally water; (c) at least one halogenated compound, selected from secondary or tertiary alkyl halogenides, aryl or alkylaryl halogenides, halogenides of organic acids, metallic or organometallic halogenides and halogens; (d) at least one organometallic aluminum compound or hydric derivatives thereof characterised in that the amount of compounds (a) and (b) are such that the ratio between the hydroxyl groups including those of water and/or carboxyl groups and the neodymium atoms is from 2/1 to 80/1 and maintaining contact of said components in order to obtain a catalytic mixture having an aluminum/neodymium ratio of from 20/1 to 80/1 and a halogen/neodymium ratio of from 0.2/1 to 3/1, feeding said catalyst mixture and liquid butadiene monomer separately or premixed in an amount of from 10^4 to 4×10^5 gram mols of butadiene per gram atom of neodymium either discontinuously in an agitated polymerization reactor, or continuously at one end of an elongated reactor in which flowing of the polymerization mixture is carried out by a piston (plug-flow) in the presence of solid particles insoluble in the reaction medium, controlling the temperature of the polymerization reaction through the partial evaporation of the butadiene monomer from the liquid phase of polymerization until a polymer mixture with a polymer content of 25 to 70% by weight is obtained, discharging the polymer from the other end of the reactor, and separating and recovering desired butadiene polymers from said discharged mixture.

Compl. Specn. 20 Pages.

No drawing.

Ind. Cl.: 172—D₃ —[GROUP—XX]

167277

Int. Cl.⁴: F 16 C 35/12.

TWO-FOR-ONE TWISTING SPINDLE FOR YARNS.

Applicant: MICHELE RATTI S P A, A COMPANY ORGANIZED UNDER THE LAWS OF ITALY, OF VIA FORNARA 5, I—21016, LUINO, (VA), ITALY.

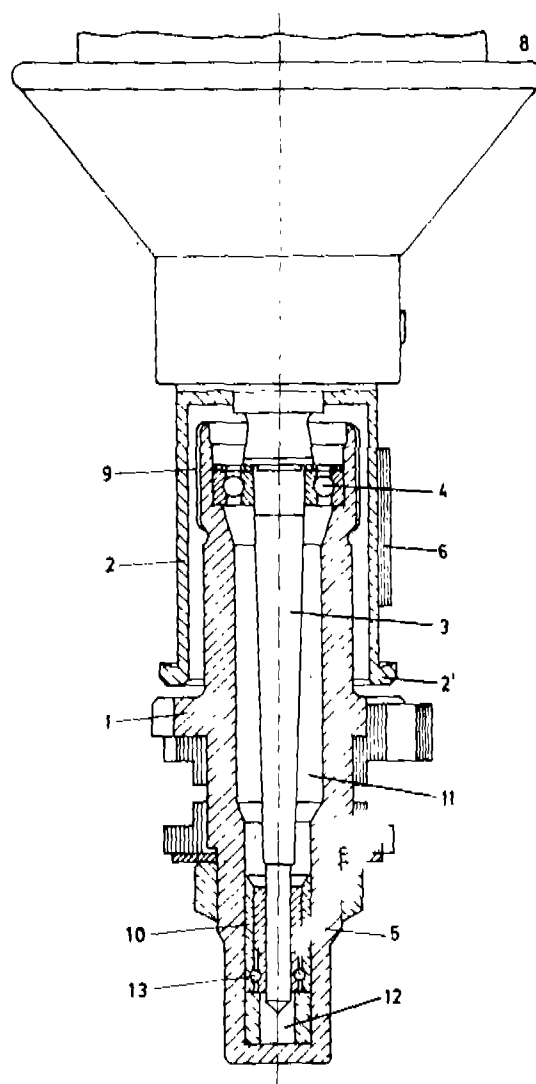
Inventor: ARTURO RATTI.

Application No. 345/Mas/86 filed on May 2, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent office, Madras Branch.

3 Claims

Two-for-one twisting spindle for yarns, comprising a spindle bolster (1) made of a known synthetic resin; a ball bearing (4) inserted between said spindle bolster (1), a rotating shaft (3) to support the axial load, as well as the radial thrust due to belt (6) for driving pulley (2) of the spindle due to the residual eccentricity; a metal reinforcement ring (9) incorporated at the position corresponding to the bearing (4) in the synthetic resin of the spindle bolster (1), a gap (11) acting as a lubricating oil container, between said synthetic resin spindle bolster (1) and the rotating shaft (3), a metal bushing (5) and a second ball or roller bearing (13) located at the base of the rotating shaft (3) of the spindle which is inserted directly or by a grooved or drilled jacket (10) into the synthetic resin spindle bolster (1), said metal bushing and said second ball or roller bearing, acting as a guide for rotating shaft (3), the metal bushing (5) having axial grooves or holes to allow the lubricating oil to go from gap (11) to a space (12) of the base of the spindle bolster.



Compl. Specn. 6 Pages.

Dwg. 1 Sheet.

Ind. Cl.: 190—B—[GROUP—XLIV (4)]
Int. Cl. 4: F 16 F 15/20

167278

DAMPING ELEMENT FOR INDEPENDENT TURBO-MACHINE BLADES.

Applicant: BBC BROWN, BOVERI LTD., OF CH-5401 BADEN, SWITZERLAND, A SWISS COMPANY.

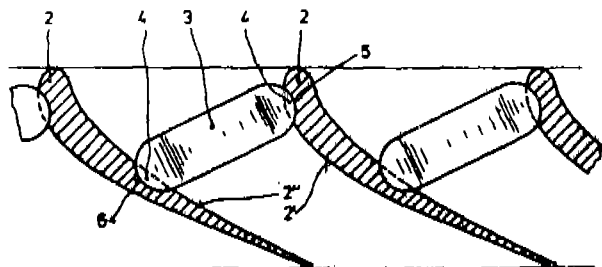
Inventor: JOSEF BATTIG.

Application No. 355/Mas/86 filed on May 7, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent office, Madras Branch.

6 Claims

Damping element for independent blades of a turbomachine, in which the blades (2) fastened in the rotor (1) are connected together, preferably in the radially outer regions, wherein a connection between two blades consists of an elastically deformable platelet (3, 3') curved towards the centre of the rotor, which platelet is engaged by support surfaces in retention features (5, 6, 7, 8) on the suction side (2') of one blade and on the pressure side (2'') of a second, neighbouring blade, the retention means being either recesses or protruding lugs, in or on which the platelets are supported.



Compl. Specn. 8 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 71—B & E—[GROUP—XXVIII (1)]
Int. Cl. 4: E 02 F 3/40; 9/28.

167279

AN EARTH WORKING TOOTH ATTACHABLE TO EITHER END OF THE LEADING EDGE OF A BUCKET.

Applicant: CATERPILLAR TRACTOR CO., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF CALIFORNIA, U.S.A., OF 100 N.E. ADAMS STREET, PEORIA, ILLINOIS 61629-6490, U.S.A.

Inventor: GENE RALPH KLETT.

Application No. 359/Mas/86 filed on May 12, 1986.

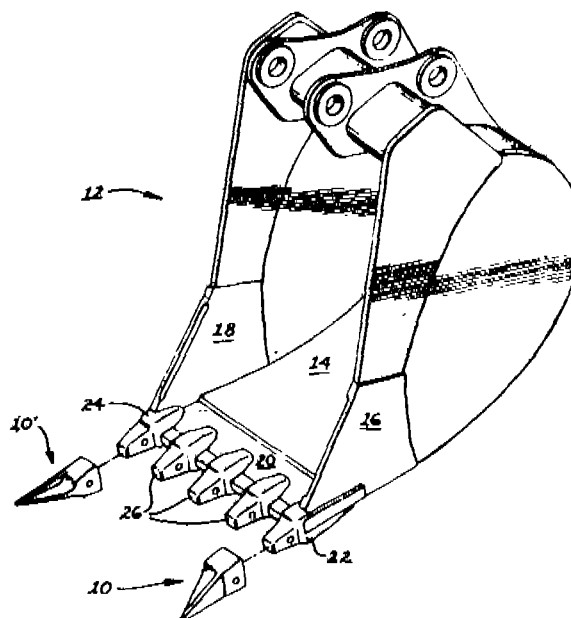
Convention date: September 18, 1985. (No. 491, 047; Canada).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent office, Madras Branch.

11 Claims

An earth working tooth (10, 10') attachable to either end of the leading edge (20) of a bucket (12), comprising: an attachment portion (30) for engagement with the bucket (12) to maintain the tooth in a

working position; a first plane (48) defined in said tooth along a central longitudinal axis (46) of the attachment portion (30), said plane (48) being vertically oriented with respect to the working position of the tooth, a ground engaging portion (34) having a single substantially flat member (52) spaced from the vertically oriented with the first plane (48) and connected to and extending from the attachment portion (30) and a single reinforcement rib (54) extending perpendicularly from the flat member (52) and being connected to both the flat member (52) and the attachment portion (30); and a second plane (50) defined in said tooth along the central axis (46) perpendicular to the first plane (48), said reinforcement rib (54) being centrally disposed along said second plane (50) said tooth being symmetrical about the second plane (50), and a cross-section of said tooth through said reinforcement rib (54) and perpendicular to said flat member (52) being T-shaped.



Compl. Specn. 11 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 136-E—[XIII]
Int. Cl. 4: B 29 C 85/06

167280

METHOD AND APPARATUS FOR SPIN-WELDING TOGETHER TWO OPPOSED CYLINDRICAL SURFACES OF THERMO PLASTICS COMPONENTS.

Applicant: METAL BOX plc., A COMPANY INCORPORATED UNDER THE LAWS OF GREAT BRITAIN, OF QUEENS HOUSE, FORBURY ROAD, READING RG1 3JH, BERKSHIRE, ENGLAND.

Inventors: (1) KENNETH ROBERT CLARK, (2) MALCOLM GEORGE COLLINS, (3) KEITH EDWARD NUTTALL, (4) SUR-ESH GAJANAN PANVALKAR.

Application No. 377/Maa/86 filed on May 15, 1986.

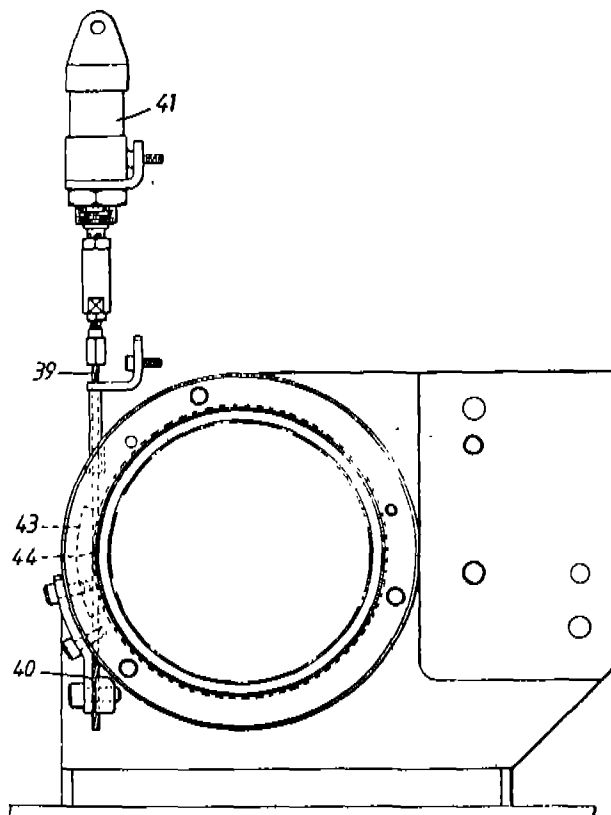
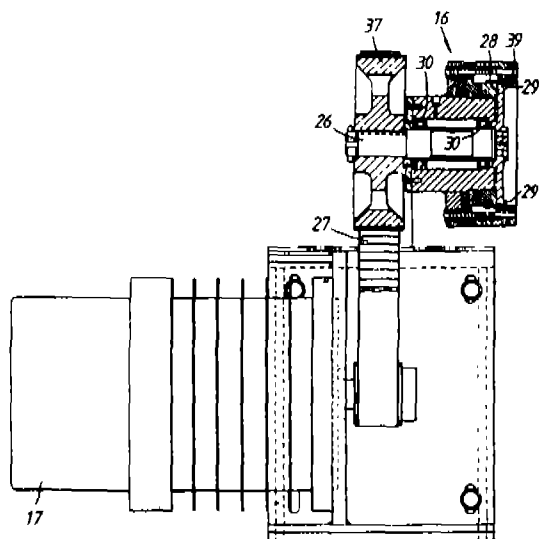
Convention date: May 24, 1985; (No. 8513240; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

A method of spin-welding together two opposed cylindrical surfaces of thermo-plastics components which when assemble together prior to welding have an interference fit, the method comprising the steps of:

- (a) engaging the components with one another and moving them into the assembled position;
- (b) spinning the components relative to one another at a relatively slow fixed speed by means of a servo-motor;
- (c) measuring the interference fit by measuring the electrical current required by the servo-motor during step (b);
- (d) applying a radial pressure to the assembled components in the region of the opposed surfaces;
- (e) selecting the value of the radial pressure applied according to the value of the measured interference fit such that the contact pressure between the opposed surfaces is controlled during welding; and
- (f) whilst the radial pressure is applied, spinning the components relative to one another at a relatively high speed and for a time sufficient to cause welding of the opposed surfaces.



Compl. Specn. 25 Pages.

Drgs. 7 Sheets.

Ind. Cl.: 107-F [GROUP—XLVI (2)]

167281

Int. Cl.: H 01 T 13/20.

AN IGNITION PLUG FOR INTERNAL COMBUSTION ENGINES

Applicant: ROBERT BOSCH GmbH, OF POSTFACH 50, 7000 STUTTGART 1, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

Inventors: (1) DR. WERNER HERDEN, (2) DR. WALTER HOLL, (3) DR. GERHARD LIEBING.

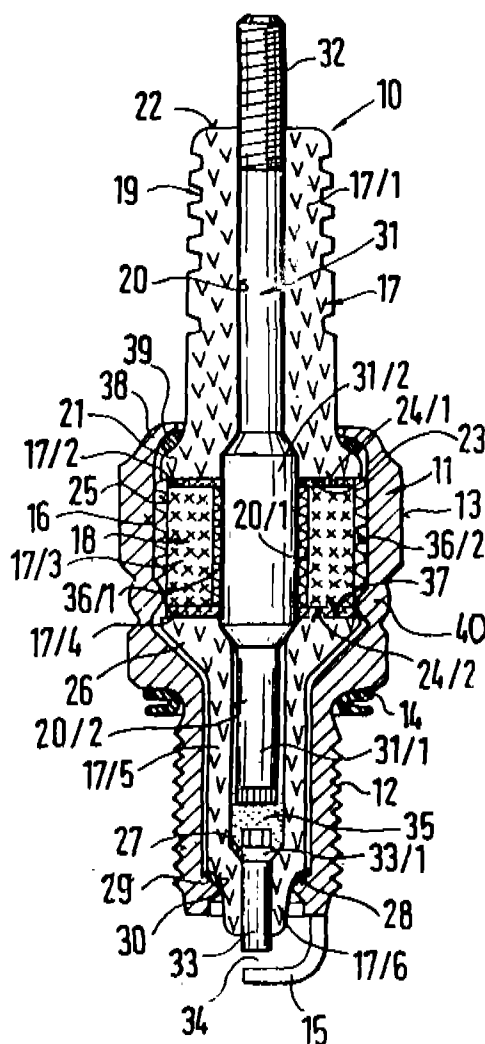
Application No. 384/Maa/86 filed on May 20, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

11 Claims

An ignition plug for internal combustion engines comprising a tubular metal housing provided with fastening means for installation in an internal combustion engine, at least one ground electrode at an end portion of the said housing on a combustion chamber side, said housing having a longitudinal borehole, an electrical insulating body, at least one longitudinal portion of which is inserted in said borehole in a gastight manner, said insulating body at least partially forming a dielectric structural component part which is in an operating connection with said metal housing and comprises a through

borehole; a connection pin enclosed in said through borehole and seated in the latter; a middle electrode positioned in said through borehole; said connection pin being in an operating connection with said dielectric structural component part and is electrically connected on the combustion chamber side with said middle electrode which is in an operating connection with said at least one ground electrode via a spark gap, wherein the said insulating body is formed of a plurality of longitudinal portions, at least one of said longitudinal portions being said dielectric structural component part which is dimensioned to provide the ignition plug a total capacitance of 120 to 500 pF, some of said longitudinal portions being annular electrical insulating elements disposed between separating surfaces extending transversely through said insulating body said electrical insulating elements resting securely against respective separating surfaces and being made of a material which is elastic at all temperatures occurring in this area of said ignition plug.



Compl. Specn. 20 Pages.

Drg. 1 Sheet.

Ind. Cl. : 127—C—[GROUP—LXV(1)]
Int. Cl.⁴ : F 16 G 1/08

167282

POWER TRANSMISSION BELT.

Applicant: MITSUBOSHI BELTING LTD., A JAPANESE CORPORATION OF NO. 1-21, 4-CHOME, HAMAZOE—DORI, NAGATA—KU, KOBE—CITY, HYOGO, PREF, JAPAN.

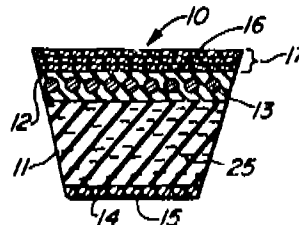
Inventors : (1) SATOSHI MASHIMO, (2) HAJIME KAKIUCHI, (3) MASAYOSHI NAKAJIMA, (4) KAZUTOSHI ISHIDA.

Application No. 409/Maa/86 filed on May 27, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

A power transmission belt wherein at least a portion thereof is formed as a composite of 1 to 100 parts by weight of whiskers distributed in 100 parts by weight of rubber said whiskers have a diameter in the range of 0.1 to 1 micron and a length in the range of 10 to 500 microns.



Compl. Specn. 16 Pages.

Drg. 1 Sheet.

Ind. Class : 84-B—[GROUP—XXXII(2)]
Int. Cl.⁴ : C 10 L 1/10

167283

AN IMPROVED GASOLINE COMPOSITION FOR USE IN SPARK-IGNITION ENGINES.

Applicant: SHELL INTERNATIONALE RESEARCH MAAT-SCHAPPI B.V., CAREL VAN BYLANDT LAAN 30, 2596 HR THE HAGUE, THE NETHERLANDS, A NETHERLANDS COMPANY.

Inventors : (1) CORNELIS VAN ES, (2) RICHARD MILES, (3) GAUTAM TAVANAPPA KALGHATGI, (4) JOHN STEVEN McCARRAGHER & (5) RUDOLPH FRANK HELDEWEG.

Application No. 482/Maa/86 filed on June 20, 1986.

Convention date : June 24, 1985; (no. 8515974; Great Britain)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims

Gasoline composition comprising a gasoline suitable for use in spark-ignition engines, containing a dibasic alkali metal salt of a succinic acid derivative having as substituent on at least one of its alpha-carbon atoms an unsubstituted or substituted aliphatic hydro-carbon group having from 20 to 200 carbon atoms which aliphatic hydro-carbon group is optionally connected to the other alpha-carbon atom by means of a hydro-carbon moiety having from 1 to 6 carbon atoms, forming a ring structure, the dibasic salt being present in an amount such that the gasoline contains from 1 to 100 ppmw of alkali metal present in the form of alkali metal salt of the succinic acid derivative, and containing 0 to 1200 ppmw of a polyolefin the monomers of which have 2 to 6 carbon atoms and 0 to 200 ppmw of a C₂₀₋₁₅₀ alkyl or alkenyl group-containing polyamine.

Compl. specn. 16 pages

Drg. Nil.

Ind. Cl.: 79—[GROUP—XLII (3)]

167284

5 Claims

Int. Cl.⁴: B 65 H 39/00**A "GATHERING MACHINE" USEFUL IN BOOK BINDING.**

Applicant: PORTALS ENGINEERING LIMITED, A BRITISH COMPANY OF 10-12 LOMBARD ROAD, LONDON SW19 3 XN, ENGLAND.

Inventor: PHILIP BIRTHWHISTLE.

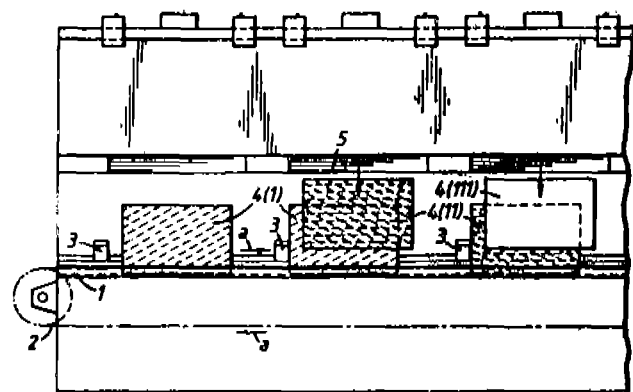
Application No. 510/Mas/86 filed on July 2, 1986.

Convention date: July 3, 1985; (No. 85 16882; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A gathering machine useful in book binding comprising a moving element gathering a sheet successively from a series of hoppers, each sheet being separated from the bottom of its stack in the hopper by a suction head pivotally mounted to engage the bottom sheet and pull it downwardly, a driven roller to complete detachment of the sheet and propel it to the other side of the machine for collation and a pivotally mounted pressure roller to form a driving nip with the driven roller and each such head having a venturi suction source.



Compl. Specn. 9 Pages.

Drgs. 5 Sheets.

Ind. Cl.: 69-I—[GROUP—LIX(1)]

167285

Int. Cl.⁴: H 01 h 37/54.**LOW VOLTAGE MINIATURE ELECTRICAL CIRCUIT BREAKER HAVING AN ADJUSTABLE THERMOMAGNETIC TRIP RELEASE.**

Applicant: MERLIN GERIN, OF RUE HENRI TARZE, 38050 GRENOBLE CEDEX, FRANCE. A FRENCH COMPANY.

Inventors: (1) BARTOLO WILLIAM, (2) BOILLOT LOUIS, (3) CHALLANDE RENE, (4) DUCHENAUD JACKY, (5) DE ROBERTIS PATRICK, (6) RAMACIOTTI JEAN-CLAUDE.

Application No. 530/Mas/86 filed on July 11, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

A low voltage miniature electric circuit breaker with insulated casing equipped with a mechanism controlled by a thermomagnetic trip release, comprising:

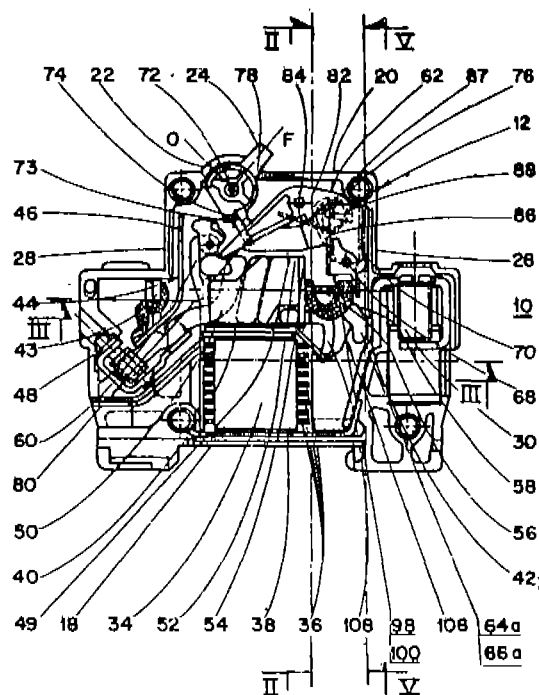
a thermal trip release having a bimetallic strip cooperating with said mechanism when an overload current exceeds a thermal tripping threshold;

an electromagnetic trip release for protection against short-circuit current, comprising a control coil electromagnet, made up by helical winding of a deformable conductor having a preset rigidity;

an end turn of said coil being extended with the same conductor by a tail cooperating with an adjustment device for the thermal tripping threshold of the thermal trip release;

said tail being arranged as an adjustable support part of the bimetallic strip which has a foot inserted by soldering between said tail and an adjacent electrical connection means electrically connected to a contact pad, to cause the current to flow thicknesswise through the foot of the bimetallic strip; and

a hinge located along said tail between the foot of the bimetallic strip and the end turn of the coil, to allow relative movement of one part of said tail due to the action of the thermal tripping threshold adjusting device, the other part of the tail connected to the end turn of the coil remaining appreciably stationary.



Compl. Specn. 19 Pages.

Drgs. 7 Sheets.

Ind. CLASS: 129-C—[GROUP XXXV]

167286

Int. Cl.⁴: B 23 H 9/14.**A METHOD OF, AND A DEVICE FOR, MANUFACTURING THIN PERFORATED SHEETS OF HARD AND/OR BRITTLE METALLIC MEMBERS.**

Applicant: INDIAN INSTITUTE OF TECHNOLOGY, I.I.T. P.O., MADRAS-600 036, TAMIL NADU, INDIA, AN AUTONOMOUS BODY SET UP BY THE GOVERNMENT OF INDIA UNDER AN ACT OF PARLIAMENT.

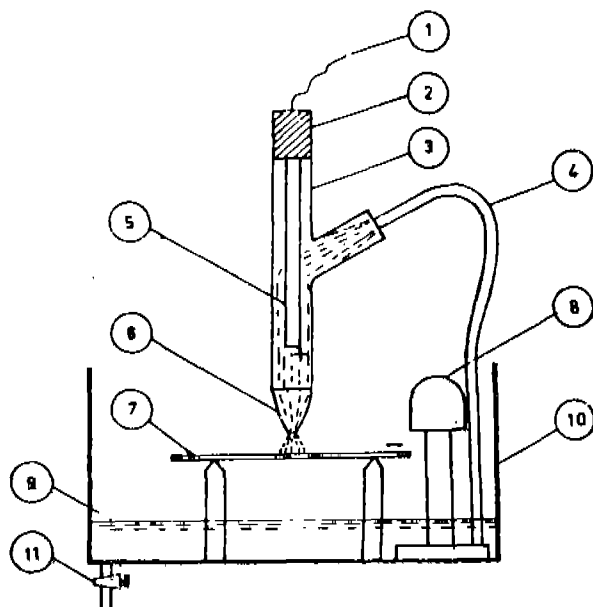
Inventor : PROF. DR. RAMASWAMI VASUDEVAN.

Application No. 591/Maa/87 filed on August 17, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

9 Claims

A method of manufacturing thin perforated sheets of hard and/or brittle metallic members comprising the steps of passing direct current of about 1 to 25 amperes through an anode composed of any metallic substance, a cathode constituted by one of such metallic members and an electrolyte bath which is mildly conductive, non-corrosive to metals and soluble in water, such as Na_2CO_3 , K_2CO_3 or washing soda the d.c. voltage applied ranging between about 120 to 350 volts, the cathode being kept out of contact with the bath, but the electrolyte surrounding the anode being directed in the form of a liquid jet on the cathode at a predetermined spot thereon, to form and maintain an adherent hydrogen film thereat, thus rapidly and intensely heating the cathode at the spot, to bore a hole therethrough, the liquid, after impinging on the cathode, being drained into the bath.



Compl. Specn. 11 Pages.

Drg. 1 Sheet.

Ind. Cl. : 128—I—[GROUP—XIX(2)]

167287

Int. Cl. 4: A 62 B 7/00

LOW PRESSURE BREATHING REGULATORS.

Applicant : NORMALAIR GARRETT (HOLDINGS) LIMITED, A BRITISH COMPANY, OF WESTLAND WORKS, YEovil, SOMERSET, ENGLAND.

Inventor : HUMPHREY ALBERT SAMUEL HAMLIN.

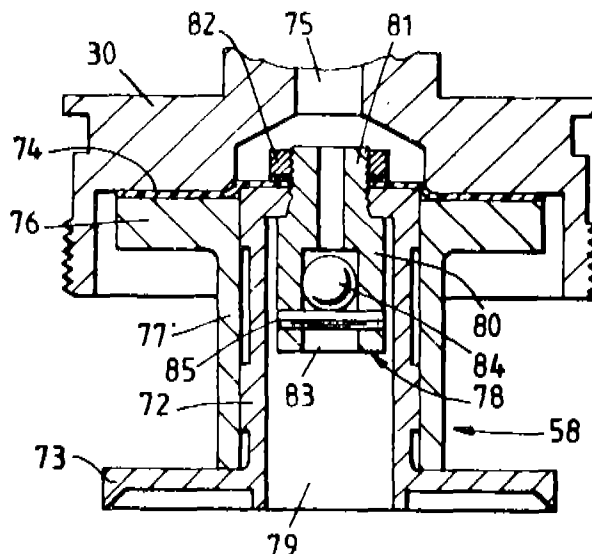
Application No. 725/Maa/87 filed on October 8, 1987.

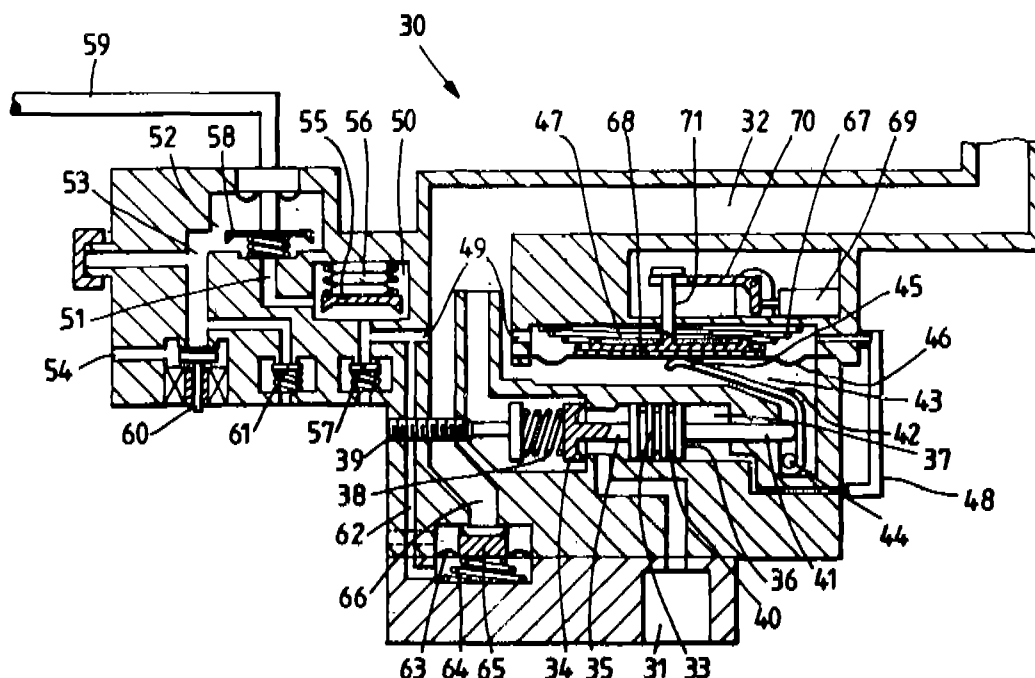
Convention date : 9th October, 1986; (No. 8624230; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims

A low pressure breathing regulator (30) for controlling delivery of breathing air in accordance with breathing demands of an aircrew member, comprising a regulator body having an inlet (31) for receiving a flow of breathing air and an outlet for delivering breathing air to a face mask worn by an aircraft aircrew member, a demand valve (33) for controlling flow of the breathing air through the regulator from the inlet (31) to the outlet (32), a demand-pressure sensing chamber (43) having communication with the outlet, a breathing-pressure control chamber (47) having communication with aircraft cabin atmosphere ambient of the regulator, a diaphragm (46) dividing the demand-pressure sensing chamber from the breathing-pressure control chamber, means (42) connecting the diaphragm with the demand valve (33) for opening movement of the demand valve in response to breathing demand sensed in the demand-pressure sensing chamber, means (44) for supplying a bleed of breathing air to the breathing-pressure control chamber, valve means (58) including a valve stem (72) and a valve head (73) for restricting flow of breathing air from the breathing-pressure control chamber (47) to ambient, in response to signals received from a G sensitive valve mounted in the aircraft in which the regulator is installed, whereby pressure in the breathing-pressure control chamber (47) is increased to provide a delivery pressure at the regulator outlet (32) appropriate to positive pressure breathing during periods of high or rapidly changing G load, means comprising a passageway for permitting a metered flow of pressurised air from the G sensitive valve to bypass the valve means (58) whereby control pressure in the breathing-pressure control chamber (47) may be rebuilt at a required rate to maintain satisfactory operation of the regulator following extreme excursions of the diaphragm.





Compl. Specn. 19 Pages.

Drgs. 4 Sheets.

Ind. Cl. : 172-C1—[GROUP-XXX]
Int. Cl.⁴ : D 01 G 25/00

167288

(6) and the lap (5) for condensing the sheet by pressing the lap sheet (7) onto the surface of one of the winding rolls (2) for formation of the lap (5).

A WINDING APPARATUS FOR FORMING A LAP.

Applicant : MASCHINENFABRIK RIETER AG., A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND, OF CH-8406, WINTERTHUR, SWITZERLAND.

Inventors : (1) PETER BAECHINGER, (2) GIANCARLO MONDINI.

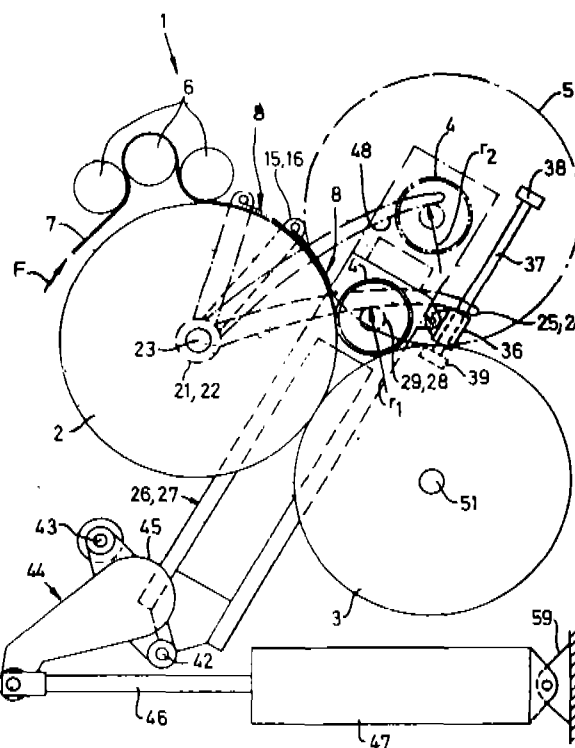
Application No. 56/Mas/88 filed on January 27, 1988.

Divisional to Patent No. 163508 (20/MAS/85); Ante-dated to January 10, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

22 Claims

A winding apparatus for forming a lap (5) from a lap sheet (7) with calender rolls (6) for calendering the sheet before delivery to one of two rotating winding rolls (2, 3) for taking up and forming the lap, characterised by a smoothing plate (8, 8.1) between the calender rolls



Compl. Specn. 28 Pages.

Drgs. 14 Sheets.

Ind. Cl.: 32—F_{2(b)}—[GROUP—IX (1)]

167289

Int. Cl.⁴: C 07 D 233/44; 263/48; 277/42.

A PROCESS FOR PREPARING SUBSTITUTED BENZAMIDES AND PHYSIOLOGICALLY ACCEPTABLE ACID ADDITION SALTS THEREOF.

Applicant: SOCIETE D'ETUDES SCIENTIFIQUES ET INDUSTRIELLE DE L'ILE 3-4 DE-FRANCE, OF 46, BOULEVARD DE LATOUR-MAUBOURG-75340, PARIS, CEDEX 07, FRANCE, A SOCIETY ORGANISED UNDER THE LAWS OF FRANCE.

Inventors: (1) JEAN CLAUDE MONIER, (2) JEAN PAUL SCHMITT, (3) MME RENEE GARDAX-LUTHEREAU, (4) BRENDA COSTALL & (5) ROBERT NAYLOR.

Application No. 325/Mas/88 filed on May 16, 1988.

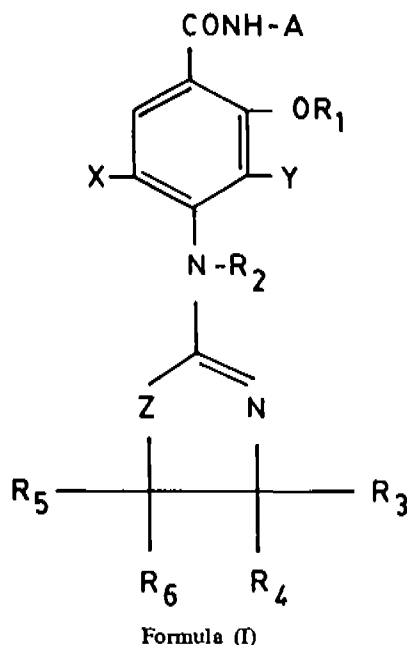
Divisional to Patent No. 163130 (983/Mas/86);

Ante-dated to December 16, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

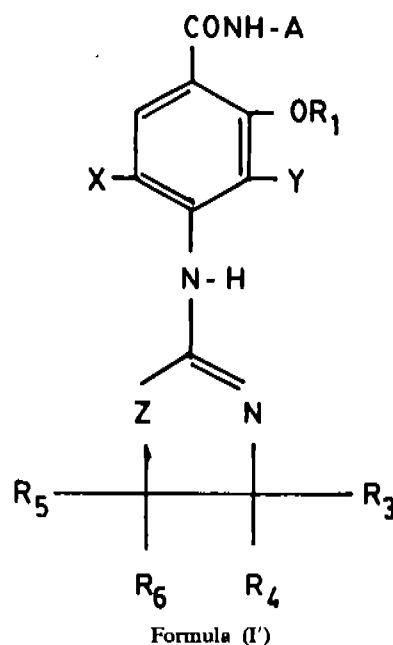
A process for preparing substituted benzamides and physiologically acceptable acid addition salts thereof of the general formula (I) of the accompanying drawings.



Formula (I)

in which A represents a C₁₋₆-alkyl, -C₂₋₆-alkenyl, or diethylaminoethyl group or a group of formula (IV) of the accompanying drawings wherein R₇ is a hydrogen atom, a C₁₋₆-alkyl, C₂₋₆-alkenyl, benzyl, C₃₋₆-cycloalkyl, C₁₋₆-cycloalkylalkyl, C₁₋₆-alkyl, C₄₋₆-cycloalkenyl or, C₄₋₆-cycloalkenyl-C₁₋₆-alkyl group, R₁ and R₂ represent C₁₋₆ alkyl or C₂₋₆-alkenyl groups, R₃, R₄, R₅ and R₆ represent hydrogen atoms or C₁₋₆ alkyl groups, X represents a halogen atom, Y represents a hydrogen or halogen atom, Z represents a NH group, an oxygen or a sulphur atom, which consists in treating a compound of the general formula (I') of the accompanying drawings.

5—G-257 GI/90.



Formula (I')

in which A, R₁, R₃, R₄, R₅, R₆, X, Y and Z are as defined above, with a bromide of formula R₂Br wherein R₂ is a C₁₋₆-alkyl or C₂₋₆-alkenyl group, in the presence of a solvent such as methanol, at a temperature of 90 to 100°C recovering the substituted benzamides in a known manner and if desired converting it into the acid addition salts in a known manner.

The compounds of this invention have the Property of stimulating motor activity.

Compl. Specn. 12 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 32—F_{2(b)} & —[IX (1)]

167290

Int. Cl.⁴: C 07 D 275/02.

PROCESS FOR PREPARING N-ALKYLBENZENESULFONYLCARBAMOYL-5-CHLOROISOTHIAZOLE DERIVATIVES.

Applicant: MELI SEIKA KAISHA, LTD., OF 4-16, KYOBASHI 2-CHOME, CHUO-KU, TOKYO, JAPAN, A JAPANESE COMPANY.

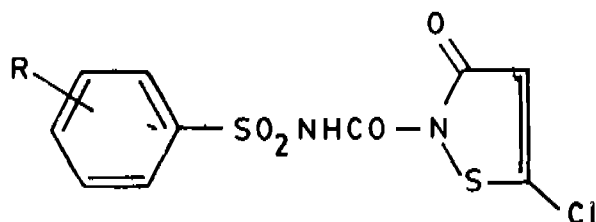
Inventors: (1) KUNIOMI MATSUMOTO, (2) TETSURO WTANABE, (3) MIKIO MUNAKATA & (4) TADAO ISHII.

Application No. 536/Mas/88 filed on July 27, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A process for preparing N-alkylbenzenesulfonyl-carbamoyl-5-chloroisothiazole derivatives represented by formula I of the accompanying drawings,



Formula (I)

wherein R represents a lower alkyl group having 1 to 4 carbon atoms, which comprises reacting a 2-, 3- or 4-alkylbenzenesulfonyl isocyanate with 5-chloro-3 hydroxyisothiazole and separating the N-alkylbenzenesulfonyl-carbamoyl-5-chloroisothiazole derivatives in a known manner.

The compounds of this invention exhibit microbicidal effect and are also useful in the field of paper industry, textile industry etc.

Compl. Specn. 23 Pages.

Drgs. 1 Sheet.

REGISTRATION OF ASSIGNMENTS, LICENCES, etc.

(DESIGN)

Assignments, licence or other transaction affecting the interest of the original proprietors have been registered in the following cases. The number of each case is followed by the names of the applicants for registration :

No. 150811, 150828, 151231, 151232, 151514, 153595 & 153596—United Containers and Coaters, Registered Partnership Firm of Paras

Estate, Tagore Road, Rajkot-360002, Gujarat, India whose partners are Smt. Chandrika D. Barcha & Shri Vinodrai V. Barcha.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration in the entry.

Class 1. No. 162118. Hitesh Shamjibhai Shah, Indian National of Gopipura, Dahanu Road, District Thane, Maharashtra, India. "Stainer". May 18, 1990.

Class 3. No. 162126. Ashish Enterprises, Indian Partnership Firm of Irani Bldg., Ground floor, 303, Cawasji Street, Bombay-2, Maharashtra, India. "Pen Stand", May 22, 1990.

Copyright extended for the second period of five years.

No. 156625, 156626, 156627, 156628, 156629, 156630. Class 1.

Copyright extended for the third period of five years.

No. 156625, 156626, 156627, 156628, 156629, 156630. Class 1.

R. A. ACHARYA
Controller General of Patents,
Designs and Trade Marks